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TELEPHONE
1852
NUMBER

THE CHEMIST AND DRUGGIST

TELEGRAPHIC
ADDRESS
CHEMICUS LONDON

Chief Office:
LONDON,
42 Cannon St.
E.C.

Established in

Branch Offices:
MELBOURNE
and
SYDNEY.

ENGLAND - 1859.

AUSTRALASIA - 1885.

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Prix de l'abonnement:—The Chemist and Druggist
une fois par semaine, et l'agenda du Chemist and
Druggist une fois par an, 12.50 francs par an,
franco.

Abonnementspreis: The Chemist and Druggist
einmal wöchentlich, und Notizkalender des
Chemist and Druggist einmal im Jahre, 10 Mark
jährlich, frei in's Haus geliefert.

Precio de suscripcion: The Chemist and Druggist,
una vez por semana, y el Agenda del Chemist and
Druggist una vez al año, 12.50 pesetas anuales
franco.

No. 888. VOL. L.

APRIL 24, 1897.

Subscription, 10s. per annum, including Diary, Post
Free the World over. Single Copies, 4d. each.
Winter and Summer Issues 1s. each, Post Free

Toilet Soaps.

With Chemist's own name.

A LLEN & HANBURY'S Ltd. can supply Chemists with High-class Milled TOILET SOAPS of their own manufacture, at prices to compete with the cutting rates of Stores, &c., for the highly-advertised articles. At the same time a fair profit is obtained, and, by supplying a first-class article, every satisfaction is given to the purchaser.

These Soaps are made from pure edible fats, and are guaranteed free from all Adulterants, free Caustic Alkali, or injurious colouring matters. They are delicately perfumed, and, being superfatted, are suited to the most tender skins or for nursery use.

Put up in cardboard boxes and carton cases to hold three tablets, with Customer's name and address; also in wooden boxes holding three dozen unwrapped tablets.

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Write for Samples and Prices to the Manufacturers:

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BATTERSEA, S.W.

**NEAREST STATION,
OLD BATTERSEA STATION,
West London Extension Railway.**

The Chemist & Druggist

SUPPLEMENT

SATURDAY, APRIL 24, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

THE CIRCULATION OF THE SUPPLEMENT THIS WEEK EXCEEDS 14,000.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.

PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.

VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£600.—**HOLLOWAY, N.**—Old-established Business; well situated in busy main thoroughfare; returns nearly £600 yearly; under management; single-fronted shop; well stocked and attractive in appearance; convenient residence, with small garden; about £400 required; an immediate purchaser will be liberally dealt with.

2.—£1,100.—**LONDON, N.W.**—First-class residential locality; modern Pharmacy; situated in main shopping-thoroughfare; returns £1,100; the shop is handsomely fitted and well stocked; convenient residence; price about £875.

3.—£500.—**LONDON, S.W.**—Old-established Business; Light Retail and Prescribing; returns £500 per annum; net profit £200; the shop has double front, corner position, and is well stocked; investigation invited; price £500.

4.—£1,000.—**HAMPSTEAD.**—Good-class Business; Retail and Dispensing; returns £1,000 yearly; very good profits; handsome shop and superior residence; the vendor having special reasons for sale, will accept a moderate price, say £750.

5.—£950.—**LONDON, S. (good-class suburb).**—Dispensing and Retail, well situated for business; returns £950; net profit about £250; well-fitted and attractive shop, with commanding double front; convenient modern house, held on good lease; price £880; trial permitted.

6.—£1,000.—**LONDON, N.E.**—Old-established Business, Retail, Prescribing, and Dispensing, with very good Proprietary trade; returns £1,000; net profit £350; the shop is very nicely fitted, and good stock; price about £750.

7.—£1,100.—**LONDON, N.W.**—Dispensing and Retail, good class; returns over £1,100 yearly; shop handsomely fitted, stock good; the business is unusually profitable; situation is very advantageous for both Ready-money Business and first-class trade; full particulars on application.

8.—£400.—**SANDHURST (near).**—Good-class Dispensing and Retail Business; returns £400, increasing; double-fronted shop, corner position; rent £30 per annum; price £400.

9.—£500.—**SOUTH COAST.**—Illness cause of sale; old-established Business, situated in the chief street of a good commercial town; the number of Chemists is below the average; returns present rate £500; full investigation invited; valuation only required.

10.—£600.—**BERKS (Market Town).**—Good-class Business with Post-office attached; returns £600; the shop is well-fitted and stocked; capital residence, held on lease; investigation invited; offer wanted.

11.—£650.—**EASTERN COUNTIES.**—Old-established Business; well situated in busy part of town; returns £650; net profit £200; vendor will accept less than valuation of stock and fixtures to effect an immediate sale; satisfactory reasons for selling.

12.—£800.—**SOUTH-WEST ENGLAND (Market Town).**—Good-class Business; situated in the main street; returns exceed £800; net profit about £250; the shop is large and attractive; commodious house and well-stocked garden; price £675.

13.—£500.—**DEVONSHIRE.**—Retail, Dispensing, and Prescribing Business; returns exceed £500; net profit £120; well-fitted shop and good working stock; convenient residence; rent £25 yearly; valuation of stock and fixtures only required.

14.—£650.—**SURREY.**—Old-established Business, with Post-office attached; returns exceed £650 yearly, with good profits; price about £100.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

COUNTRY or Seaside.—Light Retail and Dispensing Business; returns about £500 to £600; must bear strict investigation; no agents; references exchanged; particulars treated strictly confidential. "Styrax," c/o Barron, Harveys, Giltspur Street, London, E.C.

WANTED. Provinces or London, a good-class Retail and Dispensing, with a return of £1,000 or £1,200; cash trade preferred. Replies treated in confidence. W. F. (91/33), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED. A thoroughly genuine Dispensing, Prescribing, and Light Retail Business, showing net profit of £400 yearly; small town preferred; prompt cash; references exchanged if desired; advertiser is open to purchase a concern up to £2,000 returns. "Statim," c/o Barron, Harveys & Co., Giltspur Street, London, E.C.

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

WANTED. a qualified man (young), as Partner, to join advertiser to convert old-established business into a modern Drug-store; £500 required. Address, A. P. S. (38/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ESSENTIAL Oils and Essences—Active Partner required to take third share in an established and prosperous business of Manufacturing Chemists and Flavouring Essence makers in Australia, with great scope for extension; must be a practical chemist and have experience in Ethers and Fruit Essences, used in confectionery, cordials, &c., and take charge of their manufacture. Information of the bona-fides of the firm may be obtained from T. D. (91/30), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

F. J. BRETT**VALUER,****37 Waterloo Street, LEICESTER.***References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.***BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.
NO CHARGE TO BUYERS.**

£1,700.—**MIDLANDS**.—Good class Cash and Retail, in residential suburb of large town; returns in Patents not large; net profit £400; large and commanding premises; price about £950, part of which can remain on security.

£800 returns.—**NOTTS**.—General Mixed Retail; has done £1,400 under personal attention, and can again; price £500, or valuation.

£700 returns.—**LONDON, W.**—Light Retail Dispensing and own Preparations; increasing; good house; garden; lease; price £600.

£900 returns.—**LONDON, N.**—Light Retail, Dispensing, and Prescribing; net profit £300; good house; lease; price £750.

£1,700 returns.—**MIDLANDS**.—Cash Retail; under manager; district is rapidly growing, and with personal attention would soon do £3,000; not much in patents; price £700.

£600.—**WALES (NORTH)**.—Thoroughly reliable and profitable Retail; net profit £250; good house, low rent; close to picturesque scenery; price £500.

£700 returns.—**LEICESTERSHIRE**.—Good class family Retail, in pleasant market town; large and convenient house, good garden, vinery, &c.; short hours; price £550.

£450 returns.—**NOTTINGHAM**.—Branch Retail in improving part, with little opposition near; personal attention would materially increase returns; price about £250.

£1,150 returns.—**LANCASHIRE**.—Light Cash Retail, in good position, and capable of considerable extension under personal supervision; valuation about £750.

£900 returns.—**LONDON, N.**—Light Retail, Dispensing, and good Specialities; handsomely-fitted and attractive shop; net profit £300; price £800, about value of stock and fixtures.

£900 returns.—**S. WALES**.—Light Cash Retail, Dispensing, Prescribing, and own Preparations; net profit £250; price £600.

£820 returns.—**WARWICKSHIRE**.—General Mixed Retail of unusually profitable character; rent low; price £550, or valuation.

WANTED.—First-class Retail and Dispensing, showing not less than £500 net profit.

Vendors of good businesses can be at once supplied with buyers by **F. J. BRETT**.

VALUATIONS.

F. J. BRETT has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

BERDOE & CO.**CHEMISTS' TRANSFER AGENTS AND VALUERS,****35 JEWRY STREET, FENCHURCH STREET, E.C.****Established 1870.**

1.—**SOUTH OF ENGLAND**.—Fashionable seaside resort; high-class Retail and Dispensing Business; good house, facing the sea; the shop is elegantly fitted in solid mahogany, heavily stocked; satisfactory reasons for selling; price 2,000 guineas.

2.—**FASHIONABLE SUBURB OF LONDON**.—High-class Retail and Dispensing Business; returns £1,600 under management; scope for increase; net profit £500; handsomely-fitted Pharmacy, well stocked; good house attached; price £1,500.

3.—**BANKS OF THAMES**.—Few miles out, S.W. of London; a Light Retail and Dispensing Business; returns average £2,000; handsome premises; good house; well fitted and stocked shop; very low rent, long lease; price £1,300, including lease.

4.—**NORFOLK (Coast)**.—Light Retail, Dispensing, and Prescribing Business, doing a steady all-the-year-round trade of £800 per annum; good profits; excellent house; vendor, having purchased business in Midlands, will accept £600, or valuation.

5.—**NORTH OF ENGLAND**.—Good class Retail and Dispensing Business; returns £1,400; rent £60, on lease; good house; stock and fixtures worth £1,000; price £1,200, or offer.

6.—**HAMPSHIRE**.—Important town; good class Retail and Dispensing; returns £1,000; elegantly fitted, well stocked; price £900.

7.—**BEDFORDSHIRE**.—Market town; good class Business; returns £860; net profit £300; good house, garden; price £750.

8.—**HAMPSHIRE**.—Light Retail and Prescribing Business; returns £450; neglected through illness; good house; price £325.

9.—**DERBYSHIRE**.—Retail and Prescribing; returns £450; net profit £160; well-fitted corner; good house; price £300, or offer.

Particulars of the above and others free on application.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

NO CHARGE TO PURCHASERS.**35 JEWRY ST., FENCHURCH ST., CITY.**

86,

JUDD & MANNERS**Chemists' Valuers, Transfer Agents, & Accountants,****76 CANNON STREET, LONDON, E.C.**

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

Terms (moderate) on application.

MARKET TOWN, MIDLANDS.—Old-established Country trade; returns £860; net profit, £280; price £800, or offer; large and convenient house with a splendid garden.

LEICESTERSHIRE.—Good class Country trade; returns £700; very handsome Pharmacy and good house; rent £60; price £550.

HUNTINGDONSHIRE.—Very old-established Country Business, with Wines and Spirits; the proprietor is retiring from business on account of old age, and will accept the value of the stock and fixtures, about £200. This is a good chance for an energetic man with limited capital, as it wants a little push to make a good business of it.

MARKET TOWN, HOME COUNTIES.—Very old-established Country trade; returns £1,400; price £1,000; almost unopposed; capital premises, on lease.

FIRST-CLASS RESIDENTIAL SUBURB OF LONDON.—Good Dispensing and Retail Business, with nice house and Pharmacy; returning between £600 and £700, rapidly increasing; price £500, or valuation.

MARKET TOWN IN HOME COUNTY.—Neat Family Business, returning about £800; price £650.

SOUTHERN COUNTY.—An old-established good class Country trade, making a substantial net profit; splendid premises and nice garden; returns over £2,000 a year; price about £1,600, or valuation terms.

BERKS.—Family and Dispensing trade; returns £750; very profitable; price £700; very handsome Pharmacy.

ESSEX.—Light Retail and Prescribing trade, to which Dentistry might be added with advantage; returns £950; price £800; first-rate house.

HOME COUNTY.—Family trade; returns £900; price £800; large and convenient premises, with large garden.

ON THE BANKS OF THE UPPER THAMES.—Good class Retail and Dispensing, returning under a manager about £6 weekly; valuation of stock and fixtures will be accepted.

Full particulars of any of the above sent free on application.

VALUATIONS A SPECIALITY.**FERGUSON & OSBORNE****PHARMACEUTICAL CHEMISTS,****CHEMISTS' VALUERS AND TRANSFER AGENTS.****25 YEARS' PRACTICAL EXPERIENCE.****NO CHARGE TO PURCHASERS.**

All **VALUATIONS** and **STOCKTAKINGS** are conducted personally by the Principals. **Terms on application.**

1.—**SCOTLAND**.—First-class Retail and Dispensing Business in a leading county town; central position; old-established, valuable connection, at full prices; net profit over £300; vendor retiring; price £900.

2.—**HOME COUNTY**.—Light Retail and Dispensing; returns £800; handsomely-fitted shop; good house and garden; price £650.

3.—**LONDON, S.E.**—Prescribing and Light Retail; good house; net profit £150; price £250.

4.—**LONDON, N.W.**—Family and Dispensing Business; large shop, well stocked; returns £450; good house; opening for Dentist; price £270.

5.—**BEDFORDSHIRE**.—Light Retail; returns £350; price £225.

56 CHEAPSIDE, LONDON, E.C.
(Next Door to Bow Church.)

THOMAS TOMLINSON & SON,**Chemists' Transfer Agents and Valuers,****9 NEW CANNON STREET, MANCHESTER.****42 YEARS' EXPERIENCE.****Valuations Conducted with careful attention to detail.**

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bona-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

BUSINESSES FOR DISPOSAL of various classes, and amounts of returns ranging from £200 to £4,000. Particulars given to bona-fide applicants stating outline of requirements.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

BEDFORDSHIRE.—An old-established good-class Country Business for Sale, through private family reasons; the returns are about £900 a year, and fair prices are got; there is a fairly nice house, with large garden, well stocked with fruit trees, &c. Apply, "Borax," c/o Messrs. Newbery & Son, 1 King Edward Street, E.C.

CHESHIRE.—£550; an old-established Family and Dispensing Business; in present hands 20 years; no cutting; good prices; commodious house; large garden. "Alpha," c/o Messrs. Evans, Sons & Co., Hanover Street Liverpool.

LONDON.—To be Let or Sold, as a going concern, fireproof Chemical, Metallurgical, and Electrical Laboratory and Factory; has basement and four floors, fitted with electric power and light; situated in central position in London; well adapted for Assaying and Scientific Research. Apply, Murphy, 36 Mount Stuart Square, Cardiff.

LONDON SUBURB. S.W.—Genuine and exceptional offer; modern Cash Business returning over £500 and increasing; new business; mahogany fittings; no opposition; near, and very growing and superior neighbourhood; business always been under same manager; P. O. attached; good house with all latest improvements; books kept by manager, who is leaving, and sole reason for selling; about £425 required; principals only; no agents; fullest investigation offered. Apply, W. (87/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON.—A neglected Business, beautifully fitted, fair stock, and with ordinary care a good business can be made; a man with small capital liberally treated; to any one about to commence this is a rare opportunity, and will not occur again, of getting stock and fixtures less than half cost. "Palma" (89/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, E.—Main Road, corner shop; price £120; rent £50, stock and fittings worth the money; good opportunity for a young man starting; very populous ready-money neighbourhood; now carried on by Assistant; great scope for improvement. Address: "Ochemicus," c/o Mr. Reppen, 637 Romford Road, Manor Park, London, E.

LONDON, S.E.—Qualified Assistant, Prescriber, and Extractor, with small amount cash, may obtain Business by easy repayments. "Business," Walker, Troke & Co., 2 Bath Street, E.C.

LONDON, W.—£200 cash wanted, exceptional offer, for busy Cash Retail, with Extractions, and Prescribing; lock-up shop with parlour; shows a net profit of nearly £200, after paying all expenses; could be very much increased with personal attention; every investigation with introduction; lowest offer for cash only. 91/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANCHESTER (near).—For Sale, a Mixed Business; established over 2 years; doing over £400; rent £32; price £270; this Business will grow. "Rhei" (87/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANCHESTER (Near).—General Retail and Prescribing Business for Disposal in large town near Manchester; everything in good working order; good stock; convenient house; lease; present returns £10 weekly, at good profits; can be increased; no agents; genuine applications only answered. 91/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MONMOUTHSHIRE.—For immediate Disposal, old-established Retail, Prescribing, and Seal Business in colliery district; population 16,000; no opposition within 2 miles; present takings could be doubled by energetic man; good reasons for disposal. Apply, A. J. Williams, 32 Union Street, Abersychan, Mon.

NEWPORT, PEM.—For Sale, old-established Business (70 years); Chemist and Druggist, Seed Merchant, Photographer, &c.; lately carried on by Mr. D. O. James (deceased); all the effects to be taken at a valuation. For full particulars apply to Capt. John James, West Street, Newport, Pem.

NORFOLK.—Good opening in flourishing market town; handsome shop in splendid position; convenient house adjoining; to be sold at low figure; a genuine chance for anyone who wants a business possessing opportunity of development and requiring small capital to purchase. Apply, for details, to Smith & Sons, Wholesale Druggists, Norwich.

NORFOLK.—Old established Retail, Dispensing, and Agricultural Business; commanding situation in centre of market town; returns, under management, £1,200; principal could do more; excellent fixtures; heavily stocked shop; large house; price £850; sole cause of sale, owner lives 100 miles away. Apply, E.C., 94/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NORTH WALES.—Genuine Ready-cash Retail and Prescribing Business for sale, in thickly populated town; excellent sale for Proprietaries; prices good; Welsh essential; bona-fide reasons for disposal; rent reasonable; returns over £1,100; net profit over £350; price £650. Apply, "Cynuro," Evans, Sons & Co., Liverpool.

NORTHAMPTONSHIRE.—Through ill-health, a good Business in the centre of the most improving and fastest increasing town in the kingdom; population over 10,000 (5,000 in 1891); established by vendor in 1880. For particulars, apply "Specs," c/o Messrs. Baiss Bros. & Co., Jewry Street, London, E.C.

PLYMOUTH.—Chemist's Business in thickly-populated district; established 17 years; shop well stocked and fitted; premises can be had on lease, or may be purchased from vendor. For particulars address, W. U. Carveth, Chemist, 7 King Street, Plymouth.

SOUTH COAST.—Seaside.—For disposal, Light Retail and Dispensing Business, in very popular seaside resort on South Coast; several good Specialities having regular sale; returns £800, with good profits; price £750; references exchanged; agents will please not apply. Address, "Alpha," c/o Messrs. Barron, Harveys & Co., Giltspur Street, E.C.

SEASIDE.—Old-established cash Retail, Prescribing, and Dispensing; very profitable; takings nearly £800; increasing; ill-health cause of disposal; trial allowed; in full working order; excellent house; best position in town; price £675 cash; good opening for Dentistry and Photography. "Borax," c/o F. Newbery & Sons, 1 King Edward Street, London, E.C.

SOUTHERN-ON-SEA.—Cash Retail; weekly returns £6 under management; rapidly increasing neighbourhood; season commencing; should be doing £10; rent £35; favourable lease, 20 years to run; owner has purchased larger business, 100 miles away; worth £200; no reasonable offer refused; exceptional opportunity for single man, as house readily lets at £20; part purchase-money can remain. "Chemist," 9 Hall Quay, Yarmouth.

STAFFS.—Mining Village, near Potteries.—Lock-up Branch; returned last year (first year's opening) £329; good opening for smart man well up in Prescribing, Dentistry, &c.; will take £100 cash down; satisfactory reason for selling; no opposition; investigation invited; expenses almost nil. "Nomen" (92/2), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SURREY.—£450.—Unopposed, good-class Country Retail and Dispensing Business, situate in Surrey, about 20 miles from Waterloo; returns £600; well-fitted shop, well stocked; excellent house, large garden; rent £30, on lease; a bargain; full investigation allowed. 94/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TORQUAY.—Light Retail, Dispensing, and Prescribing Business; established 13 years; ready money; suitable for energetic young man; expenses light; the only Chemist's shop in the district where situated. Apply, N., 49 Market Street, Torquay.

YORKSHIRE.—Light Chemist's Business for Sale, in a manufacturing village near Leeds (population over 7,000), in consequence of the death of the late owner; returns over £300; capable of much improvement; price £300; rent of house and shop £30. Apply, B., c/o Hirst, Brooke & Hirst (Limited), Leeds.

YORKSHIRE.—Old-established Business, with some Wholesale in Special and Proprietary articles; good stock; convenient premises; cause for selling, sudden and serious illness of proprietor; price out under £1,000. Apply, S., c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

CHEMIST and Druggist's for Sale; same hands 50 years; trade £10 weekly, mostly dispensing; main road; open to large increase; stock, fixtures, and valuable lease £300, or open to an offer and part may remain. Morton Bell, 9 South Place, Finsbury Pavement, London, E.C.

DISPENSING and Prescribing Business, some good Proprietaries; large house; rent could be covered by letting; long lease; thoroughly good neighbourhood, no opposition; returns £800; principals only need apply; references. "Borax" (94/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate Disposal, old-established Country Chemist's profitable Mixed Business; returns last year nearly £200; first reasonable offer accepted; owner retiring; very convenient and commodious premises. "Yorks" (89/32), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate Disposal, good-class Business in good position in large town; value of stock and fixtures; must be sold satisfactory reasons; good opportunity for anyone accustomed to "Stores" business. Apply, 91/20, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NEGLECTED Business; busy locality south of the Thames; £100 required; full particulars on application. Orridge & Co., 32 Ludgate Hill, London, E.C.

NEGLECTED Business, easy distance of London; worth seeing to bona-fide men; returns could be doubled by energetic man; returns about £370; price £270 or offer. 88/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WESTERN fashionable Seaside Resort.—The vendor, after many years of successful occupancy, wishes to dispose of his Pharmacy, which is well situated in a favourite high-class resort; the business is Light Retail, Dispensing, &c., and returns are nearly £1,000; price £750, or valuation will be entertained. "West" (103/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£1,500 returns; rent £50; good Mixed Business in the Potteries, with first-class connection amongst Manufacturers and Potters; a thorough introduction to mode of working will be given by proprietor, who has reluctantly to offer for Sale. For further particulars, apply, "Glazeine" (104/9), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO LET.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

LIVERPOOL.—To be Let from May 1st, the old-established Chemist and Druggist's Shop, with consulting-room and house, 62 Tithern Street, close to the railway station; very suitable for a young medical practitioner; rent £52; no goodwill. W. G. Hamer & Gray, 19 Slater Street, Liverpool.

TO Chemists and others.—Bijou open Surgery to be Let with residence, in West-end main road; prominent front; most suitable to Chemists and Drug Store; the rent is very low, and small premium asked. Call before 12 or after 6 at 173 Westbourne Grove, W., or by appointment in the afternoon; no card.

FOR SALE

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

CARMARTHEN.—For Sale, through disposal of premises, first-class Chemist's Fittings—about 250 small drawers, mahogany fronted, with cases, &c. (made about 100 years ago), beautifully made, thoroughly sound, excellent condition, price £29. Apply to W. Y., Royal George Ho. el, Carmarthen.

APPRENTICESHIPS

RETAIL.

MANCHESTER DISTRICT.—Wanted, Apprentice for Chemist's business; Manchester district; must have passed Preliminary examination; no premium required. Address 93/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ITALIAN (18), speaking English and French, requires situation as Apprentice in Chemist and Druggist shop. "Italian," 21 Leyland Road, Lee, S.E.

SITUATIONS OPEN

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL.

ANDOVER.—Wanted, outdoor Assistant, about 23, for good-class brisk business; must be of good appearance and address and a good Dispenser and Counterman; short hours, no Sunday duty; opportunity of attending Chemistry classes. Apply, stating salary required, and usual particulars, enclosing carte, to Gradidge, Chemist, Andover.

BIRMINGHAM.—Wanted, Improver or Junior (indoors), in quick Light Retail; half-day holiday weekly; near Birmingham. Full particulars, salary, height, age, references, and photo, if convenient (to be returned), "Chemists," Warriek Brothers, 7 Portpool Lane, London, E.C.

BOSTON.—Wanted, at once, a smart, active Improver or Junior Assistant, for quick Store trade; half holiday and no Sunday duty. Cooke & Co., Chemists, Boston.

BRECON.—Wanted, indoor Assistant, about 20 years of age, for Mixed trade. Apply, with full particulars and photo, W. Tudor, Chemist, Brecon.

BRIGHTON.—Wanted in about a week's time, qualified Dispenser, Brighton; also an unqualified Assistant Dispenser, Brighton; and an unqualified Assistant Dispenser and to help at front Counter, Hastings. Send full particulars as to age, experience, and salary required, to George C. Dusart, 135 Queen's Road, Brighton.

BURNHAM.—Improver or Turnover wanted (indoors), for Light Retail and Dispensing business; half-holiday weekly; no Sunday duty; study allowed; comfortable home. Send photo and full particulars, Carpenter, Burnham, Somerset. Also an Apprentice wanted.

BURSLEM.—Qualified Manager; married; house-rent and rates free; must be a good Prescriber, Tooth-extractor, and able to suit himself to a working-class district; first class references required; write, enclosing photo, and stating salary. Apply, Cooper, 13 Lynnhurst Street, Burslem.

CARDIFF.—Hicks & Co. (Limited) require a Junior Assistant (outdoors); must be a reliable Dispenser and good Counterman; a Junior also required for their Barry Dock Branch. Applicants please enclose photo, and state age, height, references, and salary required.

CHINA.—A thoroughly competent Assistant, accustomed to first-class Dispensing and Retail; not over 30 years of age; 4 years' agreement; passage paid out and home. Address, "China," c/o A. S. Watson & Co. (Limited), 6 Fenchurch Street, E.C.

CREWE.—Wanted, for middle of May, a Junior Assistant; must be smart, active, and obliging; a second Junior kept; hours light. Apply, stating usual particulars, to Ashfield, The County Drug Stores, Crewe.

CROYDON.—Assistant (indoors), with some knowledge of Hospital Dispensing preferred. Apply, stating age, height, and salary expected, to Dix, Lancaster & Co., 8 High Street, Croydon.

EAST GRINSTEAD.—Junior or Improver (indoors); no Sunday duty. Full particulars of experience, age, height, salary required, and enclose photograph (which will be returned), Martin, Chemist, East Grinstead.

EASTBOURNE.—Qualified Assistant (indoors); aged about 25; experienced and reliable Dispenser; accustomed to first-class business. State experience, salary expected, and usual particulars in first letter, J. Senior, Compton Street, Eastbourne.

HADFIELD.—Energetic Junior or Improver wanted; used to Mixed business; must be willing and obliging; state age, salary required (indoors), if abstainer, and enclose photo (to be returned). Richardson, Chemist, Hadfield, Derbyshire.

HARWICH.—Wanted, at once, a steady and reliable Assistant, indoors, not under 23; good references indispensable. Full particulars, with photo, stating salary, to A. Worts, Chemist, Harwich, Essex.

HANLEY.—Junior for Wholesale and Retail; will be required to travel two or three days a week; must be steady and energetic; state salary, age, &c. (outdoors); qualification not necessary. Send photo, with full particulars, to J. D. Furnival, Chemist, Hanley, Staffordshire.

HEBDEN BRIDGE.—Qualified Assistant, about 26 years of age, for good-class Country business. Please send photo, if convenient (to be returned), stating height, salary required (outdoors), and all other particulars, in first letter, to Thos. K. Hey, Chemist, Hebden Bridge.

HORNCASTLE.—Junior (indoors), for Spa season; 6 months' engagement. Send carte, references, and state salary required, to Carlton & Sons, Chemists, Horncastle and Woodhall Spa.

INDIA.—Required, an Assistant, Minor, about 24 (single), with first-class London West-end experience; 4 years' agreement; passage out and furnished apartments. Apply, by letter, M. R. J., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

KENT.—Wanted, by end of May, a qualified Assistant, about 23; one desiring a permanency preferred. Apply, with full particulars, to 93/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LEICESTER.—Wanted, a qualified Dispenser and a qualified head-counter Assistant, by end of April. State full particulars, with photo, to Wand, Haymarket, Leicester.

LIVERPOOL.—Locum for middle of May; salary £2 per week; outdoor. Address, with references, Clubb, Pharmacist, 138 Smithdown Road, Liverpool.

LONDON.—Wanted, a trustworthy Assistant for Light Retail and Dispensing business. Apply, stating full particulars, age, height, experience, salary required, enclosing photo, if convenient, "Suburb," c/o Wright, Layman & Umney, 50 Southwark Street, S.E.

LONDON, E.C.—Metropolitan Dispensary, 9 Fore Street, E.C.—Dispenser required for the above institution; must be qualified; non-resident; salary to commence at £100 per annum; applications, stating age, with copies of three recent testimonials, to be sent to the Secretary by 30th April next; copies of duties can be obtained on application; canvassing, personal or otherwise, will disqualify.

LONDON, N.—Immediately; a smart qualified Assistant, of good appearance and address; aged about 26; easy hours and comfortable home; half-day weekly. Apply (personally preferred) to Mitchell Parker, Crouch End, London, N.

LONDON, S.E.—Frost & Harrison, Pharmaceutical Chemists, Lee, S.E., have a vacancy for a qualified Assistant.

LONDON, S.E.—Part-time Assistant; board and lodging in return for services; near three schools; good references essential. Send full particulars to Bunker, 135 Great Dover Street, London, S.E. (One other assistant kept.)

LONDON, S.W.—Wanted, a qualified Assistant, as Senior (indoors); two are kept. Apply, with usual particulars, enclosing photo (to be returned), to W. T. Frost, Mason's Pharmacy, Parson's Green, Fulham, S.W.

LONDON, S.W.—Assistant (indoors), accustomed to good-class business; active and obliging; permanency. C. Lowe & Co, Surbiton, S.W.

LONDON, W.—A Junior Assistant required. Apply personally, if possible; if by letter, give all particulars to J. G. Shirley & Son, 2 Westbourne Grove, Bayswater, W.

LONDON, W.—Assistant Manager; a smart man of business ability, accustomed to control. Apply, personally, between 3 and 4 P.M., S. F. Goss (Limited), 201 Regent Street, W.

LONDON, W.—Junior Assistant; time allowed for study; must be a good Dispenser and have had best experience. Apply personally to Davies & Long, 43 Dorset Street, Portman Square, W.

LONDON, W.—Junior or Improver; board in, sleep out, in rooms provided; time off, one hour each morning, and evenings at 8, 6, 11, 9, 11, 10; Sunday duty one in four. Apply either personally or by letter, enclosing photo, with full particulars, to Charles W. Brumwell, Pharmaceutical Chemist, 118 Holland Park Avenue, W.

LONDON, N.—Wanted, a qualified Assistant, about 25 years of age, or one that has just passed; indoors; must be a good Dispenser and Counterman. Address full particulars, 91/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, N.—A good Assistant; indoors; age about 22 or 23; a quick and accurate Dispenser and well up in Retail; abstainer preferred. Please state full particulars, with salary required, and enclose carte, or apply personally, to De Peare, 14 Highbury Park, N.

LONDON, N.W.—Wanted, smart, trustworthy Assistant in good-class business; must have gentlemanly appearance and address. Apply, giving full particulars of age, height, experience, references, and salary required (indoors), and enclosing photo if possible, Chas. A. Neale, 16 Townshend Road, Regent's Park, N.W.

LONDON, S.W.—Junior Assistant or Improver, of gentlemanly appearance and good address, and accustomed to a good-class Dispensing business. Apply personally, or if by letter, with carte. Full particulars, and salary required, to Edward C. Perks, 1 Sloane Square, London, S.W.

LONDON, S.W.—Junior or Improver. Apply, with usual particulars, to May's, 297 Winchester House, E.C.

LONDON, N.—Qualified Assistant (indoors), aged from 23 to 30, for a middle-class Dispensing and Retail; must be bushing and energetic; salary £60; one day weekly from 3 o'clock off duty; alternate Sundays on duty from 6 to 10. Apply, stating age, references, experience, &c., to Barnard, 115A Stoke Newington Road, N.

MANCHESTER (near).—At once, qualified Assistant; indoors (capital home); Extractor preferred. State age, height, salary, and send copies only of testimonials, to "Pyro," (87/33), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

RETAIL—continued.

MANCHESTER (near).—Wanted, a smart business man to take charge of Branch; must be energetic, obliging, and trustworthy; good Prescriber and Extractor essential; house for married man; half-day holiday; shiftless men may save stamps and trouble. Apply, with photo and references, or personally, to C. H. Griffiths, Chemist, Droylsden, near Manchester.

MANCHESTER.—Wanted, competent Assistant; indoors. State salary expected, age, experience, references, B. and S., 41 Stockport Road, Manchester.

MANCHESTER.—Wanted, in Manchester district, active Junior (outdoors), about 20, for pushing Retail business; must be quick and reliable, a good Counterman, and accustomed to the sale of Photographic requisites. Address, stating age, experience, references, and salary required, 12/93, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

MARGATE.—Wanted, an active Junior. Please state full particulars of experience, age, height, salary required, and enclose photo, to D. T. Evans, Chemist, Margate.

MEDITERRANEAN.—Qualified Assistant wanted at once; 3 years' agreement; liberal salary; good prospect to first-class man; second-class passage paid out. For particulars apply, D., c/o Street & Co., Cornhill.

MADRAS.—Qualified Assistant wanted, from 25 to 30 years of age; must have had good experience in first-class business; thoroughly steady, quick and accurate Dispenser; three years' agreement to be signed; salary £8 per month first year, £10 second year, and £12 third year, with option of renewal at termination of 3 years at increased pay; board and lodging provided; second-class passage paid. Apply, stating full particulars, to W. E. S., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

NEWCASTLE-ON-TYNE.—Homeopathic Pharmacy.—Wanted, qualified, active Assistant, well-up in Homeopathy; salary and commission. Address, "Homeo," c/o Mr. Roberts, Chemist, Newcastle-on-Tyne.

NORTH OF ENGLAND.—To Chemists.—Qualified man wanted for a large concern in the North. Apply, stating age, experience, and salary required, to Box 1,364, Sell's Advertising Offices, Fleet Street, London, E.C.

PEMBROKE DOCK.—Junior (indoor) Assistant, about 21; must be well recommended; abstainer preferred. Apply, with full particulars, stating age, height, experience, photo, if convenient (to be returned), salary, and when disengaged, to J. H. Bowling, Chemist and Druggist, Pembroke Dock.

RHYL.—Wanted, towards the end of May, for the season, a qualified Assistant for Branch shop. Please state age, height, references, and salary required (indoors), Davies, Chemist, Rhyll.

RICHMOND (Surrey).—Early in May, an Improver or Junior Assistant, with a fair knowledge of Dispensing, and accustomed to the preparation of B.P. articles. State full particulars as to age, height, salary required (indoors), and reference. Hopwood & Son.

ROMFORD.—Required for April 27, Turnover or Improver in good country business; abstainer and student preferred. Apply, stating terms and enclosing photo, to J. W. Lasham, Romford.

SCARBOROUGH.—A qualified Assistant (indoors), for Dispensing and Retail. State full particulars, salary required, &c., enclose photo, Clare & Hunt, Scarborough.

SOUTH AFRICA.—Assistants open to accept situations in this rapidly rising colony should apply to B. G. Lennon & Co. (Limited), 75 Leadenhall Street, London; applicants should be of sound health and not over 30 years of age.

STOCKPORT.—Wanted, an experienced Assistant for Dispensing and Light Retail; state age, height, references, &c. J. C. Arnfield, Ph. Chemist, Stockport.

SHANKLIN, I.W.—Wanted, Junior Assistant; May 1; outdoors; for the season; state salary required, age, and height, with photo, C. E. Moorman, Chemist, Shanklin, I.W.

SOUTHAMPTON.—Junior wanted at once; must be well up in Dispensing and good Counterman, of good address, and capable of taking charge occasionally. Apply, T. Beech, Chemist, King's Heath, Birmingham.

SOUTH AFRICA.—Qualified Assistant, desirous of going out to South Africa. Please write particulars of requirement to E. B. P. (95/34), c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TUNBRIDGE WELLS.—Qualified Assistant wanted for Light Retail and Dispensing business; reliable Dispenser; indoors; only one kept. Apply, with full particulars and photo, to B. Whitrow, 15 St. John's Road, Tunbridge Wells.

TUNBRIDGE WELLS.—Batting & Co. want Junior Assistant, for Light Retail and Dispensing, next week; tall, steady, and good Counterman; must write a neat, legible hand; no store hands need apply. State age, height, salary required, and name referee, enclose photo (shall be returned), "Chemists and Dentists," 16 Oalverley Road.

WEYMOUTH.—Immediately, a qualified gentlemanly Assistant as Senior; indoors; must be well up in Dispensing, smart, and good Counterman, for a good-class business; one seeking a permanency preferred. State age (not under 24 years), height, salary required, references, &c., enclosing photo (to be returned), E. Michell Smith, Chemist, Weymouth.

WOTTON-UNDER-EDGE.—At once, active, obliging, and trustworthy Junior Assistant wanted (indoors), about 20, for small Light Retail and Dispensing; easy hours, half-day weekly; also well educated youth as Apprentice, on easy terms. References, photo, and all full particulars, to E. G. Portlock & Sons, Wotton-under-Edge.

WORCESTER.—Competent Assistant required for a few months, principally for Dispensing; not under 25. State full particulars as to experience, age, height, references, salary required (indoors), and enclose photo, Andersou & Virgo, Worcester.

YOXFORD.—Immediately; Assistant during summer months, for Light Retail, Dispensing, and Prescribing; indoors; no Sunday duty; short hours; half-holiday weekly; salary £3 10s. per month. Apply, by letter, enclosing photo and reference, Cleghorn & Co., Chemists and Mineral-water Manufacturers, Yoxford, Suffolk.

A JUNIOR required, partially for a good-class Retail and Dispensing business, and partially for a poor-class business and to help at Manufacturing; also, two Apprentices required; also Locum for a fortnight from May 21. Apply, with full particulars and photo, to "Farmacist," c/o Maw, London.

A QUALIFIED Assistant, about 23, required for high-class Cash business; outdoor situation; good salary to a suitable gentleman. Enclose photograph, if convenient, to A. B., c/o Wright, Layman & Umney, Southwark Street, London, S.E.

ASSISTANT; not under 30; good Extractor; to live on premises; rooms unfurnished. C. B. A., c/o Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

A THOROUGHLY competent man required to manage a Cash Retail and Shipping business; married preferred. State age, height, salary (with unfurnished house), references, and enclose photo, to Hicks & Co. (Limited), Cardiff.

ASSISTANT Dispenser.—The Guardians of the Poor of the Parish of St. Giles, Camberwell, require for their Dispensary at Havit Street, Camberwell, the services of a qualified person to act in the above capacity, at a salary of £80 per annum. Forms of Application for candidates (who must be Licentiates of the Apothecaries' Company, London, or duly registered under the Pharmacy Act, 1868, or some other authority of law in that behalf) can be obtained by forwarding a stamped addressed foolscap envelope, or by personal application here, and the forms when completed must be returned to me at once. The person appointed will be required to post up the Medical Relief Book of the Infirmary.

Canvassing the Guardians, either directly or indirectly, is prohibited, and will disqualify any candidate.

CHARLES S. STEVENS,
Guardians' Offices, 29 Peckham Road, S.E., Clerk to the Guardians.
April 14, 1897.

DISPENSER (outdoors) wanted, by a firm of Surgeons; must be quick and accurate. Address, stating age, whether married or single, and salary required, and send references, "Surgeon," c/o Mr. Woodruffe Walton Chemist, Market Place, Higher Broughton, Manchester.

MANAGER wanted for Branch business; must be a smart, business-like, qualified man. Address, "Branch Pharmacy" (17/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, qualified Assistant; permanency for suitable man; hours not long, and half-holiday. "Permanency" (37/26), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a qualified man, aged about 24, indoors; two others kept. Apply, with particulars as regards height, salary required, &c., and enclose photo if convenient (to be returned), to "Essex," c/o Hodgkinson, Treacher & Clarke, 101 Whitecross Street, E.C.

WANTED, an Assistant, from 25 to 30 years of age, capable of conducting a Family, General, and Dispensing business near London; registration not essential, though preferred; short hours, comfortable home, good salary; permanent. W. W. Flood & Co., 206 and 208 Borough High Street, S.E.

WANTED, at once, an experienced qualified Assistant (outdoors) for a good-class country Retail business; hours moderate; no Sunday duty; also a Junior. Full particulars to "Hampshire," Messrs. Wright, Layman & Umney, Southwark Street, London.

WANTED, a qualified Assistant, about 24 years of age; must have had good Dispensing experience; salary (indoors), £60 per annum. Apply, giving usual particulars, to "Pb.C.," Messrs. Hearon, Squire & Francis, 38 Southwark Street, S.E.

BRIGHTON, HOVE, AND PRESTON DISPENSARY.

THERE is a vacancy for a duly qualified non-resident male Dispenser at the Hove Branch, Sackville Road; salary £70 per annum; hours of attendance 10 A.M. and 4 P.M. daily, for about 2 or 3 hours; each candidate must send his application in writing, enclosing testimonials, showing that he has been accustomed to prepare medicines and compound prescriptions at least five years previously, and a certificate of having passed the Minor Examination of the Pharmaceutical Society, to the Honorary Secretary not later than the 26th inst. For further particulars apply to the Assistant Secretary, Mr. A. F. Graves, Dispensary, Queen's Road, Brighton.—O. Somers Clarke, Hon. Sec., Board Room, Queen's Road, Brighton, 6th April, 1897.

WHOLESALE.

BIRMINGHAM.—Young man for Druggists' Warehouse, and to make himself generally useful; wages to begin, 15s. to 18s.; state all necessary particulars, references, experience, &c. Address, 91 Gooch Street, Birmingham.

LONDON, W.C.—Wanted, a smart youth, accustomed to Laboratory work; state experience and salary required. Marshalls (Limited), 27 Red Lion Square, Holborn.

LONDON, S.E.—Counter hands wanted for the Wholesale. Apply to 101-103, Southwark Street, S.E.

MIDLANDS.—A firm of Manufacturing Pharmaceutical Chemists require a capable representative for the Midlands; must be of good address, energetic, and with an established connection amongst Surgeons and Chemists; liberal remuneration offered. Applicants are requested to forward fullest particulars, which will be regarded in the strictest confidence, to "Medicus," c/o Messrs. Deacon's, 154 Leadenhall Street, London, E.C.

SCOTLAND.—Cashier wanted by a Wholesale Drug house in Scotland; salary to begin, £100. Apply, with copies of testimonials, to "Aloes" (103/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN CONT'D

WHOLESALE—continued.

CLERK (Junior).—Wanted, by a firm of Wholesale Druggists in the City, the services of a smart, business-like, young Clerk; good general office experience necessary. Apply, stating age, experience, and salary expected, to R. D. (90/38), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PILL Department.—A young man, experienced in Massing and Rounding by Machinery. Apply to Naylor, c/o Hearn, Squire & Francis, 38 Southwark Street, S.E.

WANTED by Provincial firm of Manufacturing Chemists, a qualified man to take charge of Laboratory. Apply, stating age, salary, and qualification, to "Brouine" (102/44), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

QUALIFIED; 23; 8 years' experience. Bromley, Manchester Hotel, Hnl.

TEMPORARY; qualified; 23. "Pyro," 77 Rawcliffe Road, Waltham, Liverpool.

PART-TIME: Surgeon or Chemist; good experience. 40 Balcombe Street, Dorset Square.

UNTIL end September; Assistant; qualified; 22; London. Burnett, Vale Terrace, Pickering.

TEMPORARY: time arranged; Chemist or Doctor. Corney, 112 Milkwood Road, Herne Hill.

JUNIOR: 20; good dispenser; tall; well recommended. Jones, 26 High Street, Carnarvon.

MANAGER, Assistant, or Locum; Major; 25; abstainer. Williams, 26 Clement Street, Salford.

LOCUM-TENENS; experienced Dispenser and Bookkeeper, "Omega," 28 Ontram Street, Darlington.

ASSISTANT for about a month; London; aged 26. "Assistant," 66 Wingfield Street, Landport.

LOCUM, where Apprentice is kept; disengaged; moderate. "Reliable," 13 Hagley Road, Birmingham.

ASSISTANT; qualified; 23; 6 years' experience; abstainer. "Photog.," Southleigh, Bxton.

ASSISTANT; 21; 6 years' first class Dispensing experience; disengaged. 14 Victoria Place, Leeds.

ASSISTANT; 24; London experience; good references; Store trade. D. J. P., 25 Church Street, Blaina.

MANAGER or Locum; whole or part time; qualified; disengaged. 1 Berkeley Road, Crouch End, N.

QUALIFIED; 26; West-end experience; disengaged. Owen, 6 Kingsgate Street, Holborn, W.C.

LOCUM-TENENS, or otherwise; 25; qualified; disengaged. Jones, 48 Crampton Street, Waltham, S.E.

LOCUM-TENENS: Prescriber, Extractor, &c.; highest references. S., 9 Wood Place, Beeston Hill, Leeds.

LOCUM-TENENS; 30; Extractor; Prescriber; day or week. "Statin," 160 Whiteladies' Road, Bristol.

PART-TIME: Assistant or Dispenser; qualified; disengaged at 6. "Salicin," 28 Trinity Street, Borough.

MANAGER or permanency; excellent references; good experience. E. C. Last, 136 London Road, Ipswich.

LOCUM or Manager; 27; qualified; accustomed to good-class business. "Chemist," 231 High Street, Lewisham.

ASSISTANT or Manager; qualified; 26; experienced; disengaged. "Trional," 286 Cowbridge Road, Cardiff.

JUNIOR; 20; good reference; outdoors; London. A. W., c/o Edwards & Son, Upper Thames Street, E.C.

ASSISTANT; qualified; 24; in good-class; London; outdoor preferred. "Minor," 13 Colnbrook Street, S.E.

ASSISTANT; 28; Stores experience; good Counterman. "Dispenser," 52 Lansdowne Road, Clapham Road.

ASSISTANT; excellent varied experience; London or Suburbs. "Chemists," 23 Charles Street, Lenth, Lincs.

WANTED, post to assist in Dispensing; has a certificate; small salary. W. B., 4 Victoria Terrace, Surbiton.

LOCUM-TENENS or Temporary Assistant; aged 43; qualified. C. M., 1 Stratford Villas, Camden Square, N.W.

ASSISTANT; 25; experienced; competent. "Dispenser," 66 Wellington Terrace, Waterloo Road, Market Rasen.

PART-TIME: Apothecaries' Hall qualification; time easily arranged. "Student," 40 Cleaver Street, Kennington, S.E.

LOCUM-TENENS, or part-time; qualified; great experience. "Dentist," 4 St. Stephen's Road, Lewisham, S.E.

ASSISTANT, for short engagement or part-time; 6½ years' experience. "Radix," 11 South Street, Manchester Square, W.

LOCUM or Temporary; 26; experienced; good address; excellent testimonials. "Locum," 17 Ram-den Terrace, Leeds.

LOCUM-TENENS; Birmingham and neighbourhood; registered; disengaged. Oakley, 12 Cherry Street, Birmingham.

MANAGER; Senior; 12 years' experience; 23; qualified; disengaged; permanency. Price, Manse, Minsterley, Salp.

MANAGER; qualified; disengaged May 1; linguist; married. "Salol," 1 The Facade, Stroud Green Road, London, N.

ASSISTANT; 26; tall; 10 years' good and varied experience; Stores, &c.; disengaged. Hudson, 34 Broughton Street, Salford.

ASSISTANT; Minor; 24; tall; high-class West-end and provincial experience. B., 28 Lark Lane, Sefton Park, Liverpool.

EVENING Employment; London; qualified; 23; good references; experienced. Price, School House, Harborne, Birmingham.

MANAGER; previous experience; 26; permanent; reliable; disengaged. "Manager," Mr. Geo. Montford, Market Drayton.

CERTIFICATED Dispenser; 25; thoroughly experienced; outdoors preferred. "Trional," 17 Trinity Square, Borough, London.

ASSISTANT desires London situation; has 2 years' London experience; aged 21; good references. N., 47 High Street, Dundee.

ASSISTANT, or Manager; qualified; 25; Midlands preferred. 93/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; best experience; tall; 39; qualified. "Active" (93/19), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM; qualified; first-class experience; disengaged May 16. For terms, references, photo, apply "Locum," 4 Guilford Place, W.C.

PART-TIME, London; outdoors; tall; Ex ractor; 6 years' good experience. R. Stanley Taylor, 210 Cornwall Road, Notting Hill.

MANAGER; qualified; married; 28; first-class references; country preferred. Albert, 40 Woodstock Road, Finsbury Park, London, N.

QUALIFIED Manager; aged 32; 17 years' experience; married; with Chemist or Stores; outdoors; West England preferred. Gonnins, Paignton.

PERMANENCY, with view to succession; first-class experience. "Minor" (91/34), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

YOUTH (16) desires situation as Improver; three years' experience; good references; distance no object. "Improver," 520 Barnsley Road, Sheffield.

MINOR; 6½ years' good experience; aged 22; disengaged May 1; London preferred. 89/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER; disengaged; temporary or permanent; outdoors preferred. "Beta" (90/36), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

OUTDOOR Assistant or Manager; 26; North England preferred; qualified; excellent experience. Robinson, 6 Soho Terrace, Castle Fields, Shrewsbury.

ASSISTANT; 24; unqualified; good references; outdoors; Drug Stores preferred. 92/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER; Minor; 24; abstainer; outdoors; London; disengaged beginning of May. 83/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COLONIES.—Advertiser desires engagement; qualified; all-round experience; aged 27. 90/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, nearly 22; 8 years' experience; good Dispenser and Counterman; disengaged. Address, M. D., Mr. Ellison, Chemist, Hoyland Common, Barnsley.

MANAGER or Locum-Tenens; qualified; all-round experience; London or suburbs preferred. 37/90, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 25; 9 years' experience in first-class Drug-stores; good references; height, 5½ feet. "Verns" (93/20), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; permanency; over 20 years' experience; married; excellent references; good knowledge of Dentistry; Liverpool or district preferred. Stocks, 78 Lark Lane, Liverpool.

SENIOR, Branch; 30 years' experience; Extractor, scale, fill, and fit; unqualified; married, no family. "Statin" (90/26), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHARMACIE FRANCAISE.—A qualified English Assistant, speaking French, and well acquainted with foreign Pharmacy, seeks re-engagement. T. J., 9 Camden Gardens, Shepherd's Bush, W.

SITUATIONS WANTED CONT'D

RETAIL—continued.

MANAGER; disengaged; qualified; Dentist; aged 40. Lea, Church Hill, Penistone.

LOCUM or Permanency; all-round experience; disengaged. "Statin," 16 Gresse Street, W.C.

LOCUM or permanent; disengaged; aged 29; good Extractor. 2 Horton Street, Lewisham.

LOCUM; daily or weekly; first-class references. N. T., 1 South Crescent, Store Street, W.C.

EVENING Employment by qualified man as Dispenser. E. H. L., 17 Bloomsbury Square, W.C.

LOCUM or Assistant; 23; qualified; London preferred. "Cera," 144 Warwick Road, Kensington, W.

LOCUM-TENENS; 28; disengaged; West-end experience. "Chemist," 118 Kingsland Road, N.E.

ASSISTANT; outdoors; 25; good town and country experience. Evans 33 Trinity Square, Borough, S.E.

EVENING Dispensing; London; unqualified. 95/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 23; unqualified; good Dispenser; tall; abstainer; London preferred. O. Davies, 54 George Street, Baker Street, W.

MANAGER; qualified; Tooth-extractor; aged 38; married, no children; or Locum-tenens. A. B., 27 Amhurst Park, N.

LONDON.—Manager or Locum; varied experience; disengaged; excellent references. "Alpha," 31 Devonshire Road, Holloway, N.

JUNIOR; 21½; 7½ years' London and Provincial experience; Stores preferred; for 3 months. Wallby, 29 High Street, Hampstead.

BRANCH Manager, to reside on premises, or outdoor Assistant; qualified; married; permanency desired. W., 23 Hartington Road, Brighton.

HOSPITAL or Surgeon's Dispensing; London; whole or part time; Major K. (92/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM-TENENS or Manager; qualified; good-class experience; quick and accurate Dispenser; good references. "Chemists," 91 Waldegrave Road, Brighton.

BRANCH Manager; 29; married, no family; good experience; competent Prescriber, Extractor, and Dispenser; unqualified. "Energy," c/o Messrs. Rees, Chemists, St. George's Road, Bristol.

QUALIFIED; 20 years' experience; good references (family); Dispensary firm of Surgeons; Hospital Managership for widow; or other suitable position. "Alpha," 26 High Street, Abergavenny.

MANAGER; permanency; 27; qualified; 11½ years' experience in Midlands, Country, and London; highest references from every situation, and fullest particulars. Neal, 14 Queen's Road, Watford.

SMART, pushing Counterman, Dispenser, Prescriber, Extractor; unqualified; Branch or neglected business, capable increase; view to succession; £20 down as bond-fides; London. Roberts, 10 Chadwell Street, E.C.

MANAGER; qualified by Examination; good Prescriber; 20 years' experience; married; highest references; a permanency desired; Southern or Midland Counties preferred. L. M., 18 Grove Street, W. Untham Road, Norwich.

MANAGER-ASSISTANT, in good-class Retail and Dispensing business, with view to early succession on mutual terms; Manchester district preferred; aged 30; qualified; particulars exchanged. "Argon" (88/18), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.

TRAVELLER; Drugs or Sundries; first-class references. W. D., 1 South Crescent, Store Street, W.C.

QUALIFIED Chemist desires any position in Wholesale house. 95/22, Office of THE CHEMIST AND DRUGGIST 42 Cannon Street, E.C.

TRAVELLER (experienced) open to introduce New Lines throughout West England. "Electrozone," 2 Boswell Buildings, Eastville, Bristol.

YOUTH, aged 18, 3 years' experience, not afraid of work, seeks situation in Warehouse; nominal salary. "Chemicus," 23 High Street, Olney, Bucks.

ADVERTISER wants to represent two or three good houses on commission; town or country; good connection. "Loretin," 109 Arthur Street, Chelsea.

TRAVELLER; Drug or Sundry House; good connection, London, Midlands, and West of England; qualified. "Chemist," 162A Southwark Bridge Road; S.E.

TRAVELLER, Drugs or Sundries; 25 years' Wholesale and Retail experience; can introduce thoroughly tried Proprietaries on mutual terms. "Drugs," Nevorn House, Caversham Road, Reading.

YOUNG German, experienced Druggist, thoroughly acquainted with Varnish and Spirit Manufacture, requires situation. Apply, 94/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER, calling on Chemists and Grocers, representing first-class English house in Ireland, wishes to meet with another who would pay part salary and expenses. "Medicus," 26 Stephen's Green, N., Dublin.

RE-ENGAGEMENT as Traveller for Drug or Sundries; 27; good experience; excellent references; town or country; permanency required. Apply, 92/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; Lancashire, Yorkshire, and Midlands; 8 years' connection, Medical men, Chemists, &c.; excellent references. "Medicus" (91/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, experienced in making and putting up Preparations, Proprietaries, Formulae in large quantities; thoroughly reliable; excellent references; aged 26. "Chemist," 9 Boston Villas, Hermitage Road, Finsbury Park, N.

TOWN Traveller.—Representative of a leading Drug-house will shortly be open to re-engagement; good personal connection amongst principal Chemists and Stores. "Rhei" (92/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

MANCHESTER DISTRICT.—Minor and Major Examinations; private tutor has vacancies for two or three evening students; full elementary course; revision course for advanced students. Particulars, Webber, 41 Johnson Street, Cheetham, Manchester.

MANCHESTER Chemists remitting 3s. for 1 doz. 1s. Kure-Yu Headache Powders will have their name and address printed, as Agents, on 50,000 Manchester handbills; distribution commencing May 1st. Write to Bridgwaters (Limited), Chemists, West Bromwich.

A LARGE Continental factory of Essential Oils, Essences, &c., is desirous to entrust a well-introduced and pushing firm with the sole Agency for the United Kingdom. Apply for particulars to "D. D." (91/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DAISY Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

SULPHUR tablets, and sulphur and sarsaparilla tablets; the best made; send for samples free; sulphur tablets, 2 cwt. at 36s., 1 cwt. at 38s., ½ cwt. at 21s., under 5d. lb.; sulphur and sarsaparilla, 2 cwt. at 41s., 1 cwt. at 45s., ½ cwt. 25s., under 28 lbs. at 6d.; all carriage paid, cases free; window tickets supplied free, various priced wordings. White, Chemist, Leicester.

TO CHEMISTS AND DRUGGISTS.—The Koko Maricopas Company (Limited), 11 Gray's Inn Road, London, will supply a Flag and Pole (free) to be fixed over the shop, with the words in white letters, "Koko for the Hair," and with the name, &c., of Chemist underneath; this is found to be a splendid advertisement for Chemists and Druggists; a beautiful picture of Miss Ellen Terry (framed, 22 in. by 16 in.) can be had on application either to Messrs. Butler & Crispe, 82 Clerkenwell Road, London, or to the Company at above address; write for particulars.

CHEMISTS' Shop Fittings.—12-ft. run of glass-labelled drug-drawers, shelving, lockers, and cornice complete, 12d. 10s.; plate-glass fronted counter, 12 ft. long, 10/; dispensing-screen, mirror centre, 6 ft. long, 6/ 10s.; desk and perfume-case, 45s.; bent plate-glass counter-case, with serving and display shelves, 5 ft. long, 95s.; gold-labelled shop-rounds, pink ointment-jars, and every requisite for fitting-up quickly, and at moderate prices. Philip Josephs, 54 Old Street, City Road, London, E.C.

Note.—Business entirely closed Friday, April 23.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Emulsion of any kind; sheet of formulæ and attractive labels free with each jar; ½ lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lb., 25s.; each post free. Rouse Brothers, 61 Charlotte Street, London, W.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Caesar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

STIRLING'S "MINOR" AIDS.

Tabulated Materia Medica, B.P., 1885-90, and Non-Official, 2nd Edition. Much time and laborious study saved by the use of these Tables. 1s. 6d. Notes on Dispensing. Pocket Edition (4th). Interleaved for MS. notes. 1s. 6d. Does, Sp. Grs., and Percentage of B.P. 1885-90. New and Improved Edition. Scheduled Poisons (Part 1 and 2) in distinctive type. 6d. Equations, &c., of the B.P. Chemicals. An aid to the Chemistry of the British Pharmacopœia, and a Guide to Equation Writing. 1s. Synopsis of Strengths, B.P. 1885-90. By means of this little book a month's work may be easily done in a few spare half-hours. 1s. Pharmaceutical Latin and Prescription Reading. With Key. 1s. 6d. Post free per return for P.O. or stamp, from the Publisher.

JOHN GOWER, 4 Lancing Road, Ealing, LONDON.

Exchange Column—Bargains

$\frac{1}{2}$ d. per word with name and address.

1d. per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

APPARATUS.

Becker's balance, nearly new, £1 17s. 6d. T. J., 9 Camden Gardens, Shepherd's Bush, W.
Dale's patent oil-pump and measure complete; good condition. Offers to MORGAN, Chemist, Burton-on-Trent.
Bischopp gas-engine, $\frac{1}{2}$ horse, good repair, very cheap, £6; putting down much larger; also Maighen's tank-filter, £1, one-third cost. DRAKE, Dunmow.

BOOKS AND PERIODICALS.

"**Minor Allments**," Wills's "Volumetric Analysis," Wootton's "Problems." HOWITT, 36 Pevensey Road, Eastbourne.
Offers wanted for C. & D. journal, 1895 and 1896; condition good. HUDDLESTONE, Parsonage Street, Heaton Norris, Stockport.
Cooley's "Cyclopædia Practical Receipts," 6th edition; eight divisions; uncut; cost £2; offers. MORGAN, Chemist, Burton-on-Trent.

DRUGS AND CHEMICALS.

For Sale, 7 lbs. rad. sarsar. jam. incis., carriage paid, 15s. DAVIES, Chemist, Forest Hill, S.E.
For Sale, 10 gallons compound syrup of trifolinm, to clear at sacrifice; in good condition. 30/7, Office of the C. & D.

FORMULÆ.

Book of 130 well-tryed recipes for chemists; general, remedial, veterinary, toilet; post free, 1s. 6d. TULLY, Chemist, Hastings.

OPTICAL AND PHOTOGRAPHIC.

Lancaster's $\frac{1}{2}$ -plate Instantograph; good working order; 50s. DICKENSON, 7 Radford Road, Nottingham.
Excellent changing-hag, cost 8s. 6d.; dishes, printing-frames, &c.; used; perfect; cheap. 90/23, Office of the C. & D.
Splendid walnut counter-case of test-lenses, prisms, discs, colour-tests and trial-frames; cost about £10 10s., take £6. JONES, Chemist, Wavertree.
An Adam's Ideal hand-camera, carries 12 $\frac{1}{2}$ -plates, with time and instant shutter, R.R. lens, cost £8 7s. 6d., as good as new. WALTER E. STOKES, 22 High Street, Brompton, Chatham.
† Lancaster studio-camera and slide, portrait-lens (Waterhouse diaphragm), studio-stand, and 2 double dark-slides and carriers, nearly new. J. B. THWAITES, Crown Square, Penrith.
Quarter-plate mahogany camera, rap'd rectilinear lens, Waterhouse diaphragm, leather bellows, sliding front, swing back, donble dark slide, folding tripod; almost new; 35s. WILLIAMS, 13 Arthur Road, Holloway.
Lancaster's half-plate Instantograph, with patent shutter, 2 double dark slides, and 3-fold tripod, all nearly new, £3 5s.; $\frac{1}{2}$ -plate Lancaster's special brass-bound Instantograph, with Lancaster's silver ring rapid rectilinear lens, 3 double dark slides, patent universal tripod-stand, with time and instantaneous Thornton-Pickard shutter, all only been used few times, £4 10s. WALTER E. STOKES, 22 High Street, Brompton, Chatham.

PROPRIETARY ARTICLES.

Beecham's pills, 1s. $\frac{1}{2}$ d. size, 9s. 6d. doz., 3 doz. carriage paid; cash with order. ROSSITER, 549 Green Lanes, N.
Le Frere's crème de violet, 1 4s. 6d., 6 2s. 6d., 5 1s., perfect condition, the lot 7s. 6d., carriage paid. ANDREW, Chemist, Fulham, S.W.
For Sale, $\frac{1}{2}$ dozen 1s. $\frac{1}{2}$ d. Hayman's balsam, 13s. 6d.; 2 dozen 1s. $\frac{1}{2}$ d. Daisy powders. "CHEMIST," 101 Dartmouth Road, Forest Hill.
For Sale, to clear, 4 2s. 9d. Moonseed bitters, 2 Australian oint., 8 Brandreth's pills, 6 Goodman's powders, 6 Townsend's sarsa. oint., 3 Osborn's golden drops, 3 Rackham's liver-pills; what offers? KERNICK & Son (LIMITED), Cardiff.
Must be sold; any price taken to clear.—Squah remedies: 238 pots eye-ointment, 382 hottles blood-purifier, 1,040 pots skin-ointment, 2,000 bottles instant relief; not stamped; offers wanted; lying at Brewer's Quay. A. Z., 70 and 71 Bishop gate Street, London, E.O.
Six 1s. $\frac{1}{2}$ d. Dallen's pills, 1 2s. 9d. Rackham's, 2 2s. 9d. Frampton's, 5 1s. $\frac{1}{2}$ d. Frampton's, 3 1s. $\frac{1}{2}$ d. Eyre's cough-pills, 1 2s. 9d. Eyre's cough-pills, 4 6d. Carter's bird-seed, 26 4d. Carter's bird-seed, 8 1d. Carter's bird-seed; patents slightly soiled. Offers to HARTLEY, Harrow.

SHARES.

200 Barclay & Sons (Limited) preference shares, average 6 per cent., 12s. paid, and 100 ordinary ditto, £1 fully paid, cum. div., 5 per cent. just declared; will accept £200; this is a perfectly safe investment. J. H. S., North Road, Atherton.

SHOP FITTINGS.

Bargain.—2 specie-jars with mahogany stands, as Maw's fig. 1; what offers? PEAKE, Chemist, Twickenham, S.W.
For Sale, 2 nests of handsome solid-mahogany drawers, shelves on top; perfect condition. MILLARD BROTHERS, Goole.
The whole stock and fixtures of a chemist's shop for sale; valuation, or a fair offer accepted. Address "CHEMIST," Silver Street, Salisbury.
Maw's counter show-case, fig. 5, 5 ft. long; nearly new; walnut; a bargain; what offers? PETTINGER, 30 Rosslyn Hill, Hampstead, N.W.
Through disposal of lease.—In 1 lot, or separately, complete substantial modern-style mahogany fittings, carboys, bottles; low prices. HALL, 130 High Road, Kilburn.

MISCELLANEOUS.

About 3 doz. syphons, perfect, 1s. each. BARNES, Chemist, Plaistow, E.
Bargain.—Tooth forceps, new, plated, list. DUNCAN, Chemist, Madeley, Salop.
Postal and private tuition for pharmaceutical Preliminaries. F. W. FORD, 28 Daisy Road, Birmingham.
Spongio-piline, 1 yard, clean; what offers? Address, HENDERSON, Chemist, Viaduct, Aberdeen.
Wills's "Analysis," 1s. 3d.; Potter's "Materia Medica and Pharmacy," 17s. 6d., new; some Minor apparatus, cheap. 23 90, Office of the C. & D.
Three carboys, 2 specie-jars, set midwifery instruments, pair French scales (to weigh 2 lbs.); lot £4; cheap. Apply, HARRISON, Chemist, Boundary Road, Derby.
Three gross cycle-repair outfits containing best solution, 1897 valve, best patching, canvas, &c., in best boxes, to be sold cheap. Chemical-works, 174 Neate Street, Camberwell.
Dealer's stock.—Rauchfuss's Insufflator (Maw's fig. 145, sec. vi., 3s.), 12s. doz., new; indiarubber-ring pessaries, new, perfect condition, assorted sizes, 2s. 6d. doz.; ophthalmoscopes: Landolt's, W.cker's, Loring's, 21s. each, Liebrich's, 7s. 6d.; a number of Foot's combined water-bottle, urinal, and enema donches, from 2s. 6d. to 10s. Any of the above sent on approval, or may be seen at THE CUSTOM HOUSE DRUG STORES, 235 Victoria Dock Road, E.

WANTED.

Bacc. pip. alb.; samples and price per cwt. delivered. JINKS, Iron Bridge, Salop.
Two skulls, with lower jaw complete. Apply, ROGERS, Chemist, Wallasey, Cheshire.
Plate-glass mirror, without frame, about 7 ft. by 2 ft. 6 in. HARRISON, 3 Eltham Road, Lee.
Wall-case, 4 ft. long, 2 wide, suitable for screen, scales, counter-case. MATTHEW, Hoyland, Barnsley.
"Five-pound" homœopathic show-case, good condition (Ashton's preferred). Cash price to FARROW, Walthamstow.
"Journal of the Society of Chemical Industry" for 1882, 1883, and 1885. Price to J. P., 16 Chancer Street, Leicester.
"Pharmaceutical Journal," 1864-5, 1867-8; "British Pharmaceutical Conference," 1864, 1867. LIVERSEGE, 292 Rotton Park Road, Birmingham.
Bent-glass counter show-case, 6 ft. long or more; upper-molar forceps, right and left (children's); Wills's "Volumetric Analysis." OSMOND, St. Mary's Road, Portsmouth.
Complete fittings for chemist's shop, including 12-ft. wall-fitting, drawers, wall-case, dispensing-screen, York recess-bottles, jars. Particulars and lowest price to 88/1, Office of the C. & D.

ADDRESS WANTED.

The name and address of the gentleman who favoured us with a P.O. order for naphthalene tablets, dated April 15, posted at Worthing. THE ELEPHANT DISINFECTANT CO., 174 and 176 Neate Street, Camberwell, London.

TO CHEMISTS!

OUR HOMŒOPATHIC MEDICINES

Have by far the Largest Sale, and leave an exceptionally Large Margin of Profit on Retailing, while our name and reputation, the longest honoured in English Homœopathy, attract the desired custom.

PARCELS ENCLOSED DAILY to any of the London Wholesale Houses.

A HANDSOME AND ATTRACTIVE SHOWCASE IS

“GIVEN TO EVERY AGENT”

With order amounting to £3 3s. and upwards.

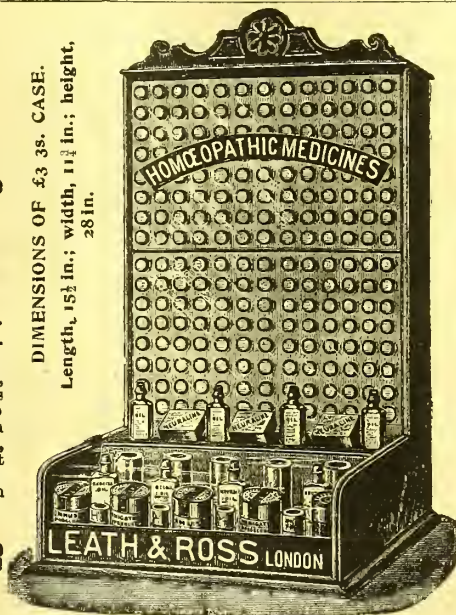
OUR
£5
Handsome and Attractive
CASE
(OPEN BACK OR FRONT).

This handsome Case stands unrivalled for style, convenience, and beauty, increasing the sales very considerably, and is fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

DIMENSIONS - Length, 19½ in.; width (from back to front), 11½ in.; height, 32½ in.

**NO CHARGE WHATEVER
FOR THE CASE.**

DIMENSIONS OF £3 3s. CASE.
Length, 15½ in.; width, 11½ in.; height, 28 in.



Our TINCTURES,
PILULES,
and CAMPHOR

Are in great demand everywhere, and can be had in any strength from the φ (mother), 1x : 1, and upwards.

1/- Size
3/6 per doz.
Cash.

9d. size, 2/9 ,,
6d. size, 2/- ,,

Agents' Cases, upright or flat, at £3 3s., £4 4s., £5, £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

OPINIONS OF THE TRADE.

A. C. K., Feb. 15th, 1897, says:—"I beg to acknowledge, with many thanks, the receipt of the Show Case received to-day. I consider it a well-made and high-class fitting, and suitable for a prominent place in any Pharmacy."

W. H. G. writes:—"The case came safely to hand, and has already increased my sales, and makes a handsome addition to the counter."

LEATH & ROSS, Wholesale and Export Homœopathic Chemists,
9 VERE ST., OXFORD STREET, W. } LONDON.
And **JEWRY HOUSE, OLD JEWRY, E.C.**

KEATING'S POWDER



KEATING'S POWDER

FLEAS BUGS KILLS MOTHS BEETLES

SOLD ONLY IN TINS 3^d 6^d & 1^s EACH.

12 BRIDE LANE, LONDON, E.C.

DEAR SIR,

If you sell "Keating's Powder" may I suggest that one of my cards will be an attraction to your Establishment?

It measures 22 x 18 inches, the picture is printed in 15 colours, and in first-class style, the advertisement being part of the frame moulding and not too much on the Picture itself will make it an attractive feature in any shop.

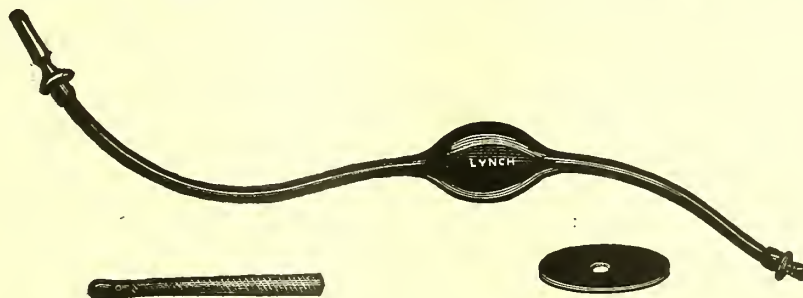
If you desire to exhibit one, I will send it free by Parcel Post on receipt of your label.

Yours respectfully,

THOMAS KEATING.

THE "MARVEL" ENEMA

Will not go hard in cold weather.



Under the above title we offer the most wonderful apparatus ever brought before the Trade. It is made of Sound Reliable Rubber, handsomely enamelled, black or red, is of elegant form, full sized barrel, full length tubes, fitted with bone rectum pipe, elastic gum vagina tube, and patent leather shield, and put up in a handsome oval box, with dome top, covered in cloth and leather, and priced

23/- per dozen.

LESS USUAL DISCOUNT.

Chemists will find this Enema worth their attention.

THERE'S MONEY IN IT!!

LYNCH & CO., Ltd., 192 Aldersgate St., London, E.C.

The List of Applications will be Opened on Wednesday, the 28th April, 1897, and Closed on or before Friday, the 30th April, 1897, at 4 P.M. for Town, and on or before Monday, the 3rd May, for the Country and Abroad.

A. J. WHITE, Limited (the Vendor Company), invite applications for the undermentioned issue.

A. J. WHITE, LIMITED

(“MOTHER SEIGEL’S”)

Incorporated under the Companies Acts, 1862 to 1893.

CAPITAL - - - - - £1,000,000

Divided into 500,000 Six per Cent. Cumulative Preference Shares of £1 each (preferred as to Capital and Dividend), and 500,000 Ordinary Shares of £1 each, of which 333,332 Shares (being the maximum allowed by the Rules of the London Stock Exchange) will be issued to the Vendors as fully paid, in part payment of the purchase money.

Issue of 333,334 Preference Shares and 333,334 Ordinary Shares of £1 each at par.

Both classes of Shares are payable as follows:—2s. 6d. on Application, 7s. 6d. on Allotment, 10s. One Month after Allotment.

DIRECTORS.

- *HENRY KING PACKARD, 35 Farringdon Road, London, E.C., *Chairman and Managing Director*.
ALDERMAN ALF COOKE, J.P., Ex-Mayor of Leeds, Crown Point Works; and Weetwood Hall, Leeds.
MILTON BARTHOLOMEW, Managing Director of the Yost Typewriter Company (Limited), 50 Holborn Viaduct, London, E.C.; and “Grassington,” Beckenham, Kent.
*THOMAS PLATT (Messrs. Clarke, Son & Platt), 85 Gracechurch Street, London, E.C.
CHARLES BIRCHALL, 7 and 9 Victoria Street, Liverpool; and “The Laurels,” Egremont, Cheshire.
*ALFRED LOADER, 30 Reade Street, New York.
BENJAMIN BARLOW NIXON (Messrs. Brough, Nicholson & Hall, Leek, Staffordshire; and 41 Cheapside, E.C.), Ballington House, Leek, Staffordshire.
* Being Directors of the Vendor Company will not join the Board until after Allotment.

BANKERS.

THE CITY BANK (Limited), Ludgate Hill, London, E.C., The Head Office, Threadneedle Street, London, E.C., and all Branches.

BROKERS.

Messrs. MILLAR & LLEWELLYN, 24 Austin Friars, Throgmorton Street, London, E.C.

SOLICITORS.

Messrs. RANGER, BURTON & FROST, Langbourn Chambers, 17 Fenchurch Street, London, E.C., *for the Company*;
Messrs. MAITLANDS, PECKHAM & CO., 17 Knightrider Street, Doctors’ Commons, London, E.C., *for the Vendors*.

AUDITOR.

Mr. WILLIAM ORTON ATTREE, F.C.A. (Messrs. Attree, Wilson & Attree, Chartered Accountants), 41 Coleman Street, London, E.C.

SECRETARY AND OFFICES.

E. P. WATKINS, 35 Farringdon Road, London, E.C.

PROSPECTUS.

This Company has been formed for the purpose of acquiring as a going concern the entire business and assets of A. J. White (Limited), (incorporated in 1884), the well-known Medicine Proprietors, of 35, 37, 39, 43, and 47 Farringdon Road, London (who are themselves the Vendors to this Company, and its sole promoters), and of carrying on, developing, and extending the same.

The property to be acquired includes the goodwill, trade-names, trade-marks, recipes, formulae, leasehold premises, tenancies, contracts, rights, fixtures, fittings, utensils, chattels, stock-in-trade (manufactured and unmanufactured),

assets, and property (except book-debts, and credits, and cash in hand), as the same stand on the 31st of March, 1897, which is the date up to which the Vendors will discharge all debts and liabilities, and from which all profits will be taken by the Company, and dividend be paid on its Shares.

This business, which has now attained such colossal dimensions, was established in London by Mr. A. J. White in 1877, and some idea of its growth and development may be obtained from the fact that to keep pace with it the following centres of distribution have had to be established, and are now in full operation.

GREAT BRITAIN.

Nos. 35, 37, 39, 43, and 47 Farringdon Road, London, E.C.—H. K. Packard, *Managing Director*.

UNITED STATES.

30 Reade Street, New York.—Alfred Loader, *Director and Manager*.

CANADA.

71A St. James’s Street, Montreal.—Frank Cooper, *Manager*.

FRANCE.

Principal Branch:—Lille, 118 Boulevard de la Liberté.—Oscar Fanyau and Charles Decroix, *Managers*.
Dépôts:—Paris, Lyons, Marseilles, Bordeaux.

SPAIN.

Barcelona, Calle de Caspe, No. 155.—Charles Howell, *Manager*.

AUSTRALASIA.

Sydney, 160 Clarence Street.—William H. Blight and George O. Owers, *Joint Managers*.
Dépôts:—Melbourne, Adelaide, Brisbane and Auckland, New Zealand.

SOUTH AFRICA.

Cape Town, 28 St. George’s Street.—W. H. Hiley and Charles W. Clarke, *Joint Managers*.
Dépôts:—Port Elizabeth, East London, Durban.

In the building up of this business more than One Million Five Hundred Thousand Pounds Sterling has been judiciously expended in advertising and placing before the public its various proprietary articles, more especially the famous Mother Seigel’s Curative Syrup, which is believed to have the largest sale of any proprietary medicine in the world.

It is not necessary to set forth here the merits of the various preparations themselves, or the high favour in which they are held by the public all over the world. The enormous sales, and the marvellous manner in which they have increased during the past nineteen years, speak eloquently in these respects. It may, however, be pointed out that unlike a patent, or a mine, or any diminishing property, the goodwill never expires or works out, but tends to go on increasing in value and stability year after year without limit.

A. J. WHITE, LIMITED—cont.

As to the profits, £357,685 0s. 6d. have been earned, and (including Balances brought forward and carried forward) £360,000 has actually been distributed by way of dividend, during the four years ending 30th June, 1896, and this, notwithstanding the strong conservative policy which has been followed with regard to the accounts of the business, and which is instanced in Mr. Attree's report. The average of the profits earned during this period of four years is, therefore, upwards of £89,000 per annum.

The nominal capital of the Vendor Company is comparatively small, and the value of the Shares has hitherto been out of all proportion to their nominal amount, and they have been held by a few large Shareholders and their friends. There have been none but private dealings in them, and there has been but little opportunity for the public or the trade to acquire any. It is in order to alter this state of things, and to bring the proportions of the Company more into line with the proportions of the magnificent business it owns, and in particular to make the Shares freely marketable, and to enable the innumerable agents and customers of the Company to secure a direct interest in its profits and success, that the present Company has been formed.

The purchase price for the entire business and property has been fixed by the Vendors at £960,000, on account of which the Vendors take in Shares the maximum amount which by the rules of the London Stock Exchange they are allowed to take—viz., 166,666 Preference Shares and 166,666 Ordinary Shares, and the balance in cash.

The £40,000 allowed for Working Capital will be amply sufficient for the purpose, the business of the Company being practically a ready-money business, bad debts being almost unknown, and the whole of the stock-in-trade (manufactured and unmanufactured) being included in the purchase price.

The Board has been constituted solely with a view to the successful commercial conduct of the Company's business, and the earning and payment of dividends. Mr. H. K. Packard, who has been the Managing Director of the Vendor Company since it commenced business in 1884, will contract to serve the Company for five years in that capacity, so that the same efficient and experienced administration that has conducted to the success of the business in the past will be continued to the Company in the future. Two of the other Directors have also been Directors of the Vendor Company, while the remainder of the Board consist of known business men, who have for years been identified as Shareholders with the interests of the business and are desirous of continuing their connection with the present Company.

The Vendors will pay all costs, charges, and expenses of every kind incidental to the formation and registration of the Company, and up to the first allotment, and will also convey and transfer the various properties to the Company, free of all expenses, stamp duty included. The Company will, therefore, enter into the immediate receipt of the entire profits of the business without having to bear any of the expenses usually incident to a new Company.

The Directors of the Company do not contemplate issuing any Debentures, and the Articles of Association provide that no Debentures or Debenture Stock shall be issued without the sanction of a special resolution of the Shareholders.

The books of the Vendor Company have throughout its existence been kept under the supervision of Mr. W. O. Attree, F.C.A., of the firm of Messrs. Attree, Wilson & Attree, Chartered Accountants, whose certificate is as follows:—

“41 Coleman Street, London, E.C.

“April 8th, 1897.

“To the Directors of A. J. WHITE (LIMITED),

“GENTLEMEN,—Having audited the accounts of A. J. White (Limited) since the formation of the Company in July, 1884, I have pleasure in certifying that the business has been a steadily increasing one, paying large dividends from its commencement.

“In accordance with your instructions I have made a special examination of the Books for the four years ending 30th June, 1896, and find that (excluding Balances brought forward and carried forward) the actual net profits have

been £357,685 0s. 6d., and that the average net profits therefore amount to £89,421 5s. 1½d. per annum.

“Taking the average of the four years' net profits, viz. ...	... ..	£89,421	5	1½
“Dividend on 500,000 £6 per cent. Cumulative Preference Shares requires ...	£30,000	0	0	
“Dividend at 10 per cent. on 500,000 Ordinary Shares requires ...	50,000	0	0	
		80,000	0	0

“Leaving a surplus equal to nearly 2 per cent. on the Ordinary Shares, viz. £9,421 5 1½

“All advertising has year by year been written off against the year's profits. Repairs, alterations, and improvements have also been charged in current expenses. Not a penny addition has been made to the original goodwill or trademarks, &c., of the business for the last ten years and upwards. Even income-tax on the dividends distributed has been paid by the Company.

“The profits shown above have, therefore, been arrived at after debiting and discharging every possible item which, in my judgment, could be charged against them.

“With reference to the trading of the past nine months, ending March 31st, 1897, I cannot at present give the exact figures, as the final accounts have not yet been received from the various branches abroad, but the sales have been well maintained, and interim dividends amounting to £39,000 on account of profits have been declared and paid in respect of the six months from August, 1896, to January, 1897.

“I remain, Gentlemen, yours faithfully,

“WILLIAM ORTON ATTREE, F.C.A., Auditor.”
(Messrs. Attree, Wilson & Attree, Chartered Accountants,
41 Coleman Street, London, E.C.)

Application for settlement and quotation on the Stock Exchange will be made in due course.

An Agreement has been entered into dated 12th April, 1897, between the Vendor Company of the one part and Paul Church, on behalf of the present Company, of the other part, being the Agreement for the sale and purchase of the business, and the Company will forthwith enter into another Agreement with Mr. H. K. Packard for his services as Managing Director.

There are, or may be, other Contracts in connection with the business which it is impossible or inadvisable to specify here, which Contracts, or some of them, may be Contracts within the meaning of the 38th section of the Companies Act, 1867. Applicants for Shares will be deemed to have notice of such Contracts and to have agreed with the Company, as Trustees for all persons liable, to waive any claims they may have against such persons for not more fully complying with the requirements of the said section, or on the ground that the Vendor Company stands in a fiduciary position towards this Company, or that, in the circumstances, the Directors do not constitute an independent Board.

Applications for Shares should be made on the forms accompanying the Prospectus, and be sent to the Company's Bankers, or to any of their branches, with a cheque for the amount payable on application.

The Prospectus and Forms of Application may be obtained at the Offices of the Company, and also from the Bankers, Brokers, and Solicitors.

If the number of Shares allotted be less than the number applied for, the deposit will be applied towards what is payable on allotment. If no allotment is made the deposit will be returned in full.

Copies of the Memorandum and Articles of Association and of the Contract and intended Managing Directorship Agreement above mentioned, and of Mr. Attree's Report, may be inspected at the offices of the Solicitors to the Company.

London, E.C., April, 1897.

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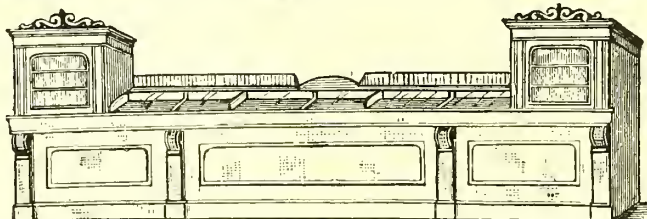
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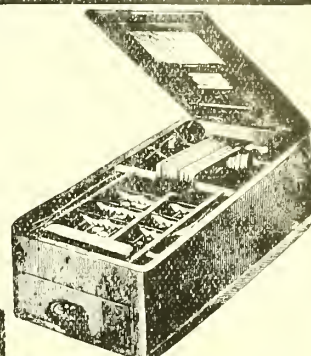
The Chemist and Druggist says:—"Mr. O'Brien claims, we think justly, that his till is as good a one as has yet been produced for the Chemists' trade. The new coin exhibitor is so simple and costs so little that we would commend this form to new purchasers."

The British and Colonial Druggist says:—"The drawer is self-closing, that is, when the outside edge is brought within 3 or 4 inches of the case the drawer snaps to at once. There can thus be no secret manipulation of the drawer."

The Irish Grocer and Druggist says:—"For accuracy, infallibility, or wear and tear, they stand unrivalled."

Pay for themselves in an incredibly short space of time.

CHECK TILLS



FOURTEEN DAYS' TRIAL
BEFORE PURCHASE.

THOUSANDS SOLD IN OVER 1,000 TOWNS
IN THE UNITED KINGDOM.

Most suitable Till for a quick Cash trade.

MADE IN SOLID MAHOGANY. Size, 18 x 10 x 7 inches.

PRICE, without Coin Exhibitor, £3 0s. nett, or £3 10s. 3 mos.

" with " " £4 10s. " £5 0s. "

A Chemist writes:—"January 1, 1896. Your Till has been of great assistance to me. Had I had it earlier I should have saved some hundreds."

Another writes:—"January 8, 1896. Please forward one of your Patent Self-closing Check Tills to my address. The one I got from you three years ago has given me great satisfaction. I want above for my other establishment."

Another Firm says:—"We like your till much better than others. It is so much more substantially made. Send us on another till at once."

Send for one on trial to:—

THOMAS O'BRIEN,
SLATER ST., BOLD ST.,

LIVERPOOL

**You cannot afford to do your
writing in the old way!**

BECAUSE

The pen is laggard: the typewriter is speedy.
The pen needs driving: the typewriter works willingly.
The pen enslaves: the typewriter sets free.

AND THE

Remington Typewriter

is the representative Writing Machine because of its

FACILITY OF MANIPULATION,

STRENGTH OF CONSTRUCTION,

PERFECTION OF WORKMANSHIP.

CATALOGUE UPON APPLICATION TO

WYCKOFF, SEAMANS & BENEDICT, 100 Gracechurch St., LONDON, E.C.

IDRIS ROYAL TABLE WATERS

Are made by Chemists for Chemists.

~~~~~

## Chemists

should remember that Idris & Co. do **not** supply Grocers, Stores, or Private Customers.

## Idris & Co.

make their own Syphons, and guarantee absolute purity of all materials employed. Metallic contamination is an impossibility.

## Chemists

will find Idris Royal Table Waters a valuable leading line, which, unlike leading lines in general, bear a substantial profit—and attract customers.

## Idris & Co.

give their customers every assistance in increasing their sales, by means of handsome Advertisement Tablets, Circulars, and Samples to Medical Men.

## Chemists

not already selling these well-known Waters should apply for Samples and Price Lists.

## Idris & Co.

are the largest Syphon Fillers in the World.

## Chemists

are invited to inspect Idris & Co.'s Factories.

## Idris & Co.

have taken one of the largest spaces at the forthcoming Chemists' Exhibition, to be held at the Covent Garden Theatre in August next.

~~~~~

IDRIS & CO., LTD.

CAMDEN TOWN, LONDON; & SOUTHAMPTON.

THE CHEMISTS ASSOCIATED IN GENERAL ATTERS ASSOCIATION LIMITED'S

FINE RECORD OF

STEADY & PROGRESSIVE GROWTH

achieved by supplying One Quality of Goods only—the Best ;
by studying and meeting the requirements of the Trade ;
and by carefully looking after minutiae and detail.

CAMWAL TABLE WATERS

are supplied to Chemists

and Hospitals
only.



CAMWAL
in 1878.
ONE FACTORY.
Membership
119.



CAMWAL
in 1880.
TWO FACTORIES.
Membership.
430.



CAMWAL
in 1884.
THREE FACTORIES.
Membership,
908.

A
HISTORY
IN BRIEF OF
CAMWAL
Gold Medal
TABLE
WATERS

CAMWAL in 1897.

SIX FACTORIES

(including two in course of erection at Manchester & Birmingham)..

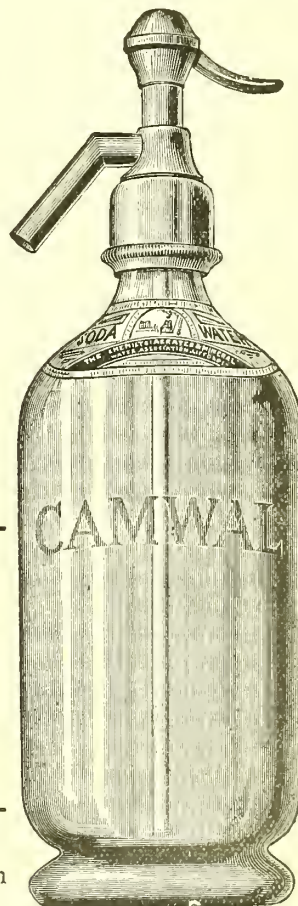
Membership over 4,000 !



CAMWAL'S FACTORIES

{ London, Harrogate,
Bristol, Mitcham,
Manchester, & Birmingham

Head Office : Gifford Street, Caledonian Road, London, N.



**LEA
BRIDGE
ROAD,**

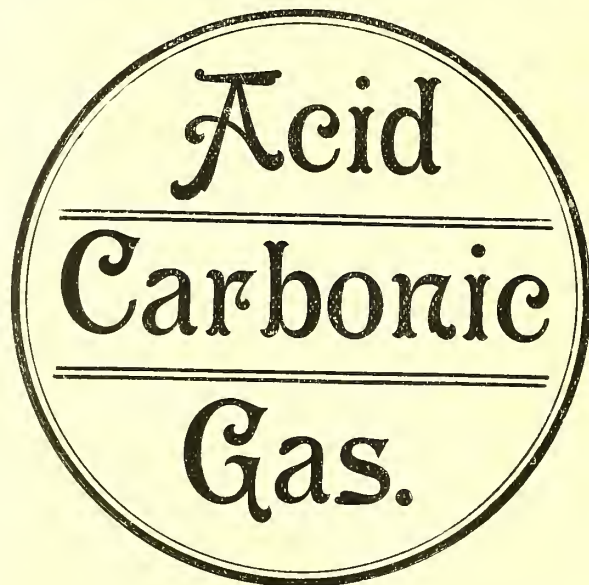
LONDON,

N.E.



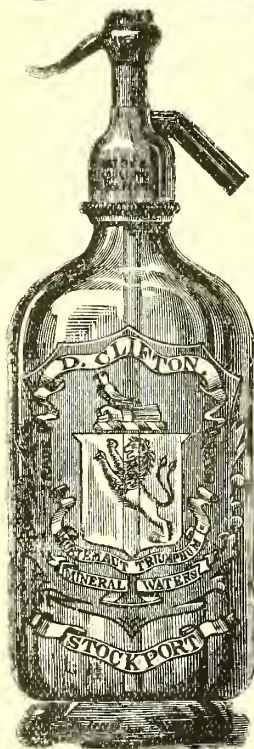
The Carbonic
Acid Gas Co.

PURE LIQUEFIED



MANCHESTER : Pollard St. East, Ancoats.

SYPHONS : SELTZOGENES



Messrs. J. B. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.W.
Agents for New South Wales, Queensland, and New Zealand.
Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria.
Agents for Victoria, South and West Australia, and Tasmania.

**SODAWATER
MACHINERY**
AND APPLIANCES
BRATBY & HINCHLIFF LTD
• ANCOATS • 146 MINORIES
MANCHESTER LONDON
81 ROBERTSON STREET, GLASGOW

PRICES.

SYPHONS - 1/6, 1/8, and 1/10 each

SELTZOGENES.

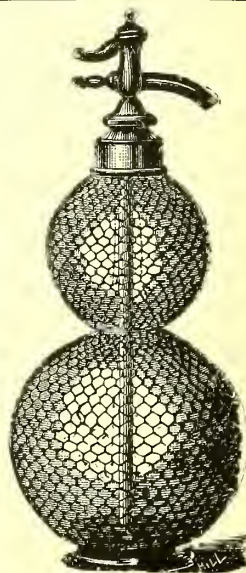
1	4	8	4	5	8
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure black tin, guaranteed.

American Agents.—For New York and East, WM. G. SMITH, 11
Duane St., New York.
For Chicago and West, VICTOR BAROCH, 409 Dearborn St., Chicago.

All our Seltzogenes are
manufactured on the well-
known "Fevre" System.
and each one is thoroughly
tested before leaving the
works.



BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

For use with the Liquefied
Carbonic Acid Gas.

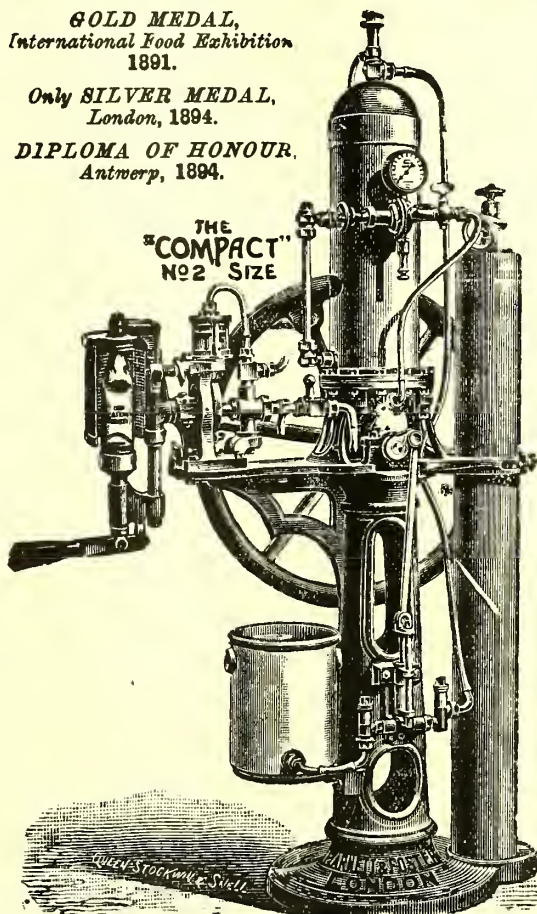
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

**NO DANGER.
NO MESS.
PERFECTLY
RELIABLE.**

GOLD MEDAL,
International Food Exhibition
1891.

Only SILVER MEDAL,
London, 1894.

DIPLOMA OF HONOUR.
Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by
Leading Chemists in
all parts of the
United Kingdom.

**TWO FILLERS
INCLUDED.**

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£69**
Producing Capacity by Hand-power 600 dozen per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover and Syphon-filling Machine ... Code word (*Royalist*) **£43**
Producing Capacity by Hand-power 350 dozen per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... Code word (*Retailer*) **£33**
Producing Capacity by Hand-power 200 dozen per day.
Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE

"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON
KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26^T EAGLE WHARF ROAD, LONDON, N.

ROBINSON'S ORIGINAL CONCENTRATED WATERS.

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Cono. (U.S.)	4/- per lb.	Aqua Cassia Cono.	4/- per lb.	Aqua Menth. Virid. Cono.	4/- per lb.
Anethi, Concent.	4/- "	Flor. Aurant.	8/8 "	Pimentæ	4/- "
Anisi	4/- "	" Sambuci Cono.	8/8 "	" Pulgii	4/- "
Camphoræ	4/- "	" Fœniculi Cono.	4/- "	" Rosmarini	4/- "
" Carui	4/- "	" Menth. Pip. Cono.	4/- "	" Rosæ	8/8 "
" Cinnam. Ver. Cono.	6/- "	" Ang. Cono.	6/- "	" Virgin.	10/8 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.).

Samples of any of the above sent free on application from

R. ROBINSON, Distiller and Brewer of British Wines, Church Street, PENDLETON, MANCHESTER.

SYMONS & CO.'S Devonshire Cyder & Wines

Specially prepared for the Home & Export Trades.

BOTTLING AGENTS AND THE TRADE SUPPLIED ON LIBERAL TERMS.

CYDER IN WOOD.

	Per Gall.
Imperial Cyder (Specially prepared)	1 9
Apple and Blossom Cyder	1 6
Champagne Cyder	1 4
Sweet Draught	1 3
Medium Draught	1 3
Superior Dry Draught	1 2
Symonia (Non-Alcoholic)	1 0
Sydrina (Non-Alcoholic)	1 0

Casks charged and allowed for if returned within two months, in good condition, to same address as sent from, and advised by post.

Terms, Delivery, &c.

A Discount of 2½% will be allowed for Cash with Order. Accounts sent out Monthly.

Cyder, Perry, Symonia, and Sydrina are sent out in Cases containing 3-dozen Quarts, or 4-dozen Pints, and Casks of 14, 20, 30, 40, 60, and 116 Gallons.

Symonia and Sydrina in ½-pints, Cases of 6 dozen.

Sparkling Wines, 1 dozen Large, or 2 dozen Half-Bottles.

Prices include Bottles, but Cases are charged 1/6 per dozen extra, and allowed for if returned Carriage Paid, in good condition, within one month.

Carriage Paid to any Railway Station in England and Wales.

TRADE DISCOUNTS ON
APPLICATION.



J. & C. SYMONS & CO. LTD.
TOTNES & DEVON,
& RATCLIFF, LONDON E.

CYDER AND WINES IN BOTTLE.

Bottles Free, and Carriage Paid.	Per Doz. Bottles	s. d.
Imperial Cyder (Extra Dry). Gold Foil.	-	10 0
Apple and Blossom Cyder (Sweet or Dry). Silver Foil.	-	7 6
Champagne Cyder (Medium Dry). Red Label.	-	7 0
Symonia (Non-Alcoholic) ½-Pts.	3 0	
Sydrina (Non-Alcoholic) do.	3 0	
Imperial Perry	-	10 6
2/- extra per Two Dozen Half-Bottles.		

"ROYAL EXCELSIOR" SPARKLING WINES.

Pale Dry Creaming (Champagne Style).	-	21 0
Devonshire Chablis	-	16 0
Devonshire Hock	-	16 0
Devonshire Moselle (English Rhine Brand).	-	24 0

3/- extra per Two Dozen Half-Bottles.

Symonia and Sydrina are the best Temperature Drinks of the day, and may be sold by Chemists.

Our Local Bottling Agents can often reduce prices in Bottle by importing in Wood, thus saving the extra Carriage, &c.

Instructions for Storing, &c.

On receipt of the case of Cyder, unpack, and stand the bottles in an upright position in a cool cellar of from 50 to 55 degrees temperature, to settle down, and return empty cases to us; or, if wanted for immediate use, in a temperature of 60 degrees, when it will get into condition, and will come out an effervescing, delicious drink, healthful and invigorating without being heady. If a dry Cyder is required, keep twelve months or more in bottle. Wines must be laid down.

FRUIT MILLS, TOTNES, DEVON, ENGLAND.

Hunyadi János

Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saxlehner, of Budapest, Hungary, which are as follows:—

Per Case of 25 large bottles,	22/6	.....	Per dozen,	12/-
„ „ 50 small „	35/-	.....	„ „	10/-
„ „ 25 large „	21/-	} Per 10-case lots.		
„ „ 50 small „	32/-			

For net cash.

London Agency—TRAFALGAR BUILDINGS, CHARING CROSS, W.C.

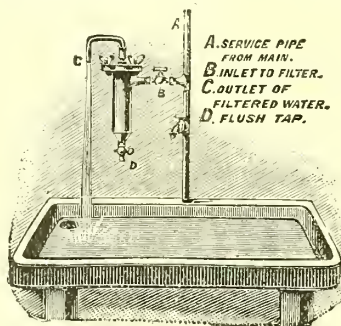
THE BERKEFELD FILTER.

“These Filters represent the greatest progress made in the construction of Filters during the last 10 years.”—DR. PLAGGE.

In the Berkefeld Filter the filtering medium is in the form of hollow cylinders or candles of various sizes, made of Kieselguhr, a substance which, on account of its enormous porosity, consisting, as it does, of the silicious skeletons of diatoms, is an ideal filtering medium.

The advantages claimed for the Berkefeld Filters are:—

- 1.—They are simple in construction, and can be easily cleaned and sterilised.
- 2.—The filtrate is absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.
- 3.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter.



FILTER (as sketch) to attach
to service-pipe £2 2 0
Smaller size 1 5 0
Glass Table Filters from ... 0 8 9

Chemists will find these Filters a profitable line, and one they can confidentially recommend to their customers.

Counter Filters specially adapted for Chemists doing a trade in Saline and Summer Drinks.

NO MINERAL WATER PLANT
COMPLETE WITHOUT A

Berkefeld Filter.

FULL ILLUSTRATED LIST AND TRADE TERMS ON APPLICATION.

CORRESPONDENCE AND VISIT TO SHOWROOMS INVITED.

THE BERKEFELD FILTER CO., LIMITED, 121 OXFORD STREET, LONDON, W.

HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.
TRADE MARK, Registered May 21st, 1867.MILD DRINKS.
Cherry, Raspberry, Strawberry,
Lime Fruit, Black Currant,
Lemon, Orange, Lemon Squash, &c.

THE PIONEER TEMPERANCE BEVERAGES.—Ch. Eng. Temp. Chron



BECKETT'S

FRUIT SYRUPS & CORDIALS


HOT DRINKS.
Winterine, Gingerale, Ginger,
Lemon, Peppermint, Clove,
Elderberry, Cherry Punch, &c.

"First-class beverages."—*The Grocer*.
"Have an established reputation."—*Noncon-*
formist.

"Delicious beverages."—*Scottish Good Templar*.
"Beckett's Fruit Syrups are not to be excelled."
—*Anti-Adulteration Review*.

"Exceedingly pleasant."—*The Rock*.
"Invigorating and refreshing."—*Manchester*
Courier.

Price Lists and other information sent post free on application to the Manufacturers—**W. BECKETT, SONS & CO., Heywood, Manchester.**
Wholesale and Export Agents—**BARCLAY & SONS (LIM.), 95 Farringdon Street, E.C.**; **W. EDWARDS & SON, 157 Queen Victoria Street, E.C.**;
J. SANGER & SONS, 2 Winsley Street, Oxford Street; **J. WOOLLEY, SONS & CO., Manchester**; **GOODALL, BACKHOUSE & CO., Leeds, &c., &c.**

ESTABLISHED HALF A CENTURY.
PRIZE MEDALS AWARDED at all the Exhibitions.

SUPPORT ENGLISH MANUFACTURE.

EUGENE GÉRAUT & CO.'S LATEST NEW PATENT SELTZOGENE

The Best Seltzogene Extant and Warranted.

Wear & Working Guaranteed. No more Screwing
required. Tap cannot get Corroded.

GREAT REDUCTION IN PRICE.

3-Pint Patent Wire ..	11/-	..	Cane ..	12/-
5-Pint " " ..	14/9	..	" " ..	15/9
8-Pint " " ..	22/6	..	" " ..	25/-

Large Discounts allowed off for quantities.

SELTZOGENES & SYPHONS.

SYPHONS.

Best English Block Tin Tops
and Ebonite Fittings, from
18/- per dozen.

HEADS of guaranteed quality.

VASES—Best Crystal and
Colours.

PRICES ON APPLICATION.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—

139 & 141 FARRINGDON RD., LONDON, E.C.



SALLYCO!

(REGISTERED)

The Mineral Water of the Day.

A Pleasant Beverage, superior to all other English and
German Mineral Waters. It mollifies and qualifies all
spirits; mixes well with wines. Relieves Alcoholic Thirst
without depressing the system.

It is a Urate Solvent, and prevents fermentation of food.

One bottle taken every morning on an empty stomach
stimulates the Liver, Kidneys, and Skin to healthy action.Recommended by Medical Men for Sluggish Liver, Gout,
Rheumatism, Kidney Complaints, Lumbago, and Sickness.All who have tried it are delighted with SALLYCO as a
Beverage and Remedy.

Retail Price, 5/- doz. on rail.

Wholesale, 36/- per gross, Carriage Paid.

.....

WANTED, Aerated Water Manufacturers all
over the world (everywhere 100 miles from London)
to bottle SALLYCO on special and advanta-
geous terms.

THE SALLYCO WATER CO.

Denmark Road, HORNSEY, LONDON, N.

20



AND OTHER

AERATED TABLE WATERS.

W. A. ROSS & SONS, LTD. BELFAST.

MARIANI WINE

MINIMUM RETAIL PRICE, $\frac{1}{2}$ doz. Bots. for **20/-**, or **3/6** per single Bottle.

In original cases of 6 dozen, **£10 4s. Od.** net cash,
with 3 per cent. discount off 6 case lots.

SANTAL MIDY.

MINIMUM RETAIL PRICE, **3/6** per Bottle.

MINIMUM WHOLESALE PRICE, **33/-** per dozen or part of dozen.

In 12 dozen lots, **£18** net cash.

WILCOX & CO., 83 Mortimer Street, LONDON, W.
GABRIEL JOZEAU, 49 Haymarket, LONDON, S.W.



THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.

Every Chemist should see this New Invention before
ordering any more Ordinary Screw Taps.

**NO SCREWS TO CORRODE OR
GET JAMMED.
EASY, RAPID, AND
EFFECTIVE IN
USE.**

SYPHONS & SELTZOGENES.

SYPHONS

EIGHT HIGHEST AWARDS.
SUPERIOR QUALITY.
ENGLISH MAKE.

HEADS: Of Guaranteed Metal, Plain Burnished
Nickelled or Silver-plated.

VASES Of Extra Strength, Finest Crystal and Colours; orna-
mentally Engraved; 18 to 50 oz. Capacity.

THE "MAJOLICA" SYPHON, Porcelain-lined Head, is specially adapted
for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES consistent with FIRST QUALITY AND WORKMANSHIP, on application to

THE BRITISH SYPHON M'FG CO., 2 Gresham Buildings. Guildhall, LONDON, E.C.



Only ONE in each Town.

WINE LICENCES.—We pay the licence for our agents; we give
33 $\frac{1}{3}$ discount, sample doctors, bill towns, give sole agency and
newspaper advertisement; one agent sold 48 doz. in eleven months; send
for circular; secure agency White's Gold Medal Coca Wine. S. B. White,
A.Ph.S., Leicester.

Why not YOU?

SELTZOGENE CHARGES

("MINERAL" BRAND).

A NEW DEPARTURE.

TARTARIC ACID SUPERSEDED

(See this Journal, 19/12/96, page 880).

British Made. Inorganic. No Field for Germ Growths.
BETTER. STRONGER. CHEAPER.

**THE SELTZOGENE PATENT CHARGES CO.
ST. HELENS.**



PRINCE ALBERT'S CACHOUX

HIGHEST AWARD COLUMBIAN EXPOSITION, CHICAGO, 1893.

These Cachoux are supplied only
in Brass Boxes, of which there
are three sizes.

No. 4's at 3/6 doz. (Export).
No. 5's at 4/- doz. (Home Trade).
No. 6's at 7/- doz.

SUBJECT TO TRADE DISCOUNTS.

All Labels, Titles, and Trade Marks registered in Europe and America.

"BENZINE RECT." JACKSON'S.

SIXPENNY & SHILLING SIZES,
4s. and 8s. per dozen.

A Genuine
Benzol.

JACKSON'S CEMENT
Chinese Diamond.
It has stood the test of time in all quarters of the globe.
In Bottles at 3/6 and 7/- per dozen.

ADHESIVE,
TENACIOUS,
AND KEEPS WELL.

JACKSON'S LIQUID GLUE.

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.
BRUSHES INCLUDED. (B)

SPECIALITIES FROM THE LABORATORY OF THOMAS JACKSON, Strangeways, MANCHESTER.

HILLABY'S HIGH-CLASS LIQUORICE.

SUPPLIED IN HANDSOME ENAMELLED TINS.

Opinions of FREDERICK DAVIS, Esq.,
B.Sc., Member of the Society of
Chemists, Newington College of
Chemistry, 26 and 28 Newington
Causeway, London, S.E.

"Liquorice Wafers of singular purity, consisting of Liquorice extract and Pectin, possessed of very delicate flavour; and I am further of opinion they are especially adapted for children and others requiring the demulcent and emollient principles of the liquorice plant in a palatable and convenient form."

"Liquorice Pellets having the following percentage composition:

Extractive 87, Water 13 = 100,
and containing no foreign colouring matter of any kind; and I am further of opinion the extractive is that obtained from the plant *Glycyrrhiza glabra*, and that the "Pellets" are exceptionally rich in the active principle glycyrrhizin, which by its demulcent and soothing properties to the vocal organs should prove of especial value to public orators and members of the dramatic profession; being of small size, they may be easily carried in the pocket."

"Liquorice and Malt Lozenges which upon chemical examination prove to consist of the finest extract of liquorice combined with malt extract, the latter exceptionally rich in diastase, rendering these lozenges of great value both as a nutritive and demulcent agent; and I am also of opinion a better preparation of Liquorice and Malt cannot be obtained, it being a palatable, nutritious, and compact sweetmeat. These lozenges should be of especial value to public speakers, singers, Members of Parliament, and others requiring a sustaining and demulcent combination during lengthy speeches or dramatic recitals."

WRITE FOR SAMPLES AND PRICES TO

JOHN HILLABY, LION WORKS, PONTEFRAC.



TOWER TEA.

The Best and the Cheapest in the World at the Price.

In 1/4, 1/2, and 1-lb. Packets only, to Retail at 1/-, 1/2, 1/4, 1/6, 1/7, 1/8, 1/10, 2/-, 2/4, 2/8 per lb. Also in Handsome 1-lb., 3-lb., and 5-lb. Decorated Tins, to Retail at 1/10, 2/-, and 2/4 per lb.

Agents appointed by

TOWER TEA, LIMITED, 5 JEWRY STREET, LONDON, E.C.

HALL'S COCA WINE

WARNING.

The "BRITISH MEDICAL JOURNAL," February 6, 1897, in an article on "Coca Wine and its Dangers," says:—

"Originally Coca Wine was made from Coca Leaves, but it is now commonly a solution of the alkaloid in a sweet and usually strongly alcoholic wine."

HALL'S COCA WINE has always been prepared from Coca Leaves only, and has no addition of Cocaine. The basis is absolutely pure wine, equal in strength to good Burgundy. It can be safely recommended to the most delicate patient without fear of evil after-effects.

This testimony is endorsed by the "BRITISH MEDICAL JOURNAL," of February 6, 1892, which speaks as follows:—

"A preparation of Coca Leaf, bearing the name of 'Hall's Coca Wine,' has been submitted to us. It appears to be carefully prepared, and contains a large proportion of the alkaloid. The preparation is not unpalatable. Coca is undoubtedly a valuable stimulant and tonic, and this preparation of it, which is made by Stephen Smith & Co., Bow, E., may be recommended as fulfilling these indications."

Protected Profit.

Advertising matter upon application
to the Proprietors,

STEPHEN SMITH & CO.
BOW, LONDON.

CAFÉ ZYLAK

PEPTONISED MILK AND COFFEE

(Concentrated).

This new preparation of Coffee with Peptonised Milk supplies a largely felt want in the case of Invalids and delicate people. It is a most valuable addition to the condensed peptonised milk foods which have met with such complete approval from the Medical Profession.

PEPTONISED MILK
(Concentrated).

PEPTONISED COCOA AND MILK
(Concentrated).

All the above preparations are sold in tins at **1s. 6d.** and **2s. 6d.**, and are obtainable everywhere.

SAVORY & MOORE, 143 NEW BOND STREET, LONDON.

Chemists to the Queen and H.R.H. the Prince of Wales.

van Houten's Cocoa

The "LANCET" says:—"Pure and unmixed." "Delicate aroma."
"Really cheaper to use."

SOLUBLE ESSENCE OF LEMON

FOR

Aerated Waters, Cordials, Syrups, &c.

Our position as Importers of large quantities of Lemons enables us to select fruit coming from districts that we have found from experience will produce the best results. We are, therefore, enabled to make a Superfine Essence of uniform character, which retains as nearly as possible the natural flavour and delicate aroma of the fresh fruit.

It is economical in use, being concentrated to the fullest extent, for use in the proportion of 1 oz. to 1 gallon of Syrup, &c.

Per lb., Duty Paid	...	...	3/9
,, in Bond	...	...	10d.

Sample and General Price List of Essences, Syrups, Cordials, Squashes, Citrate, &c., free on application.

CHAS. SOUTHWELL & CO.,

Compounders of Spirits, &c., DOCKHEAD, LONDON.

OVER 200 GOLD MEDALS AND DIPLOMAS.

FRY'S

Pure Concentrated

COCOA

Try also FRY'S MALTED COCOA,
a delicious combination of
FRY'S PURE COCOA AND MALT EXTRACT
(Allen & Hanbury's).

BUYERS' GUIDE, pages 41-43.

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical
Instrument Makers
and Wholesale Houses.



To be had of all Surgical
Instrument Makers
and Wholesale Houses.



THE WHOLESALE PRICE.

RETAIL PRICE.			PER DOZEN.
6d. Packets (Two Dozen in a box)	...	...	5/-
9d. Tins (Two Dozen in a box)	...	...	7/6
1/6 Tins (One Dozen in a box)	...	...	15/-

DISCOUNTS.

5 per cent. Discount on Orders up to £5.

7½ per cent. Discount on Orders for £5 and upwards.

Terms—Cash within 7 days.

Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¼ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of DR. TIBBLES' VI-COCOA are far greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of DR. TIBBLES' VI-COCOA has been fixed as under:—

6d. Packets to be sold at not less than 5½d.

9d. Tins ,, ,, not less ,, 8½d.

1/6 Tins ,, ,, not less ,, 1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 lots and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

Furthermore, as we pay carriage on orders value £2 and upwards, it will not be possible to obtain the advantage of this concession, nor that of the exceptional discounts we offer, unless our ruling as to the "cutting" of price is complied with.

Read the foregoing, send your order to

DR. TIBBLES' VI-Cocoa Ltd.,

SUFFOLK HOUSE, CANNON ST., LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

BURGOYNE'S

TRADE



MARK.

Cooked Standardised Malted

INFANTS' AND

INVALIDS' FOOD

IN BULK.

Special Quotations for quantities.

Put up in tastefully decorated tins to retail at
1s., 8s. doz.

Customer's own Name and Address printed on
1 gross free of charge.

Burgoyne, Burbidges & Co.

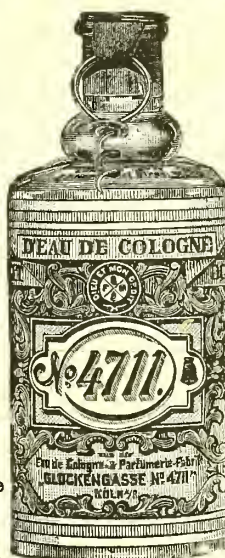
12 & 16 Coleman Street, LONDON, E.C.

MÜLHENS'
EAU DE COLOGNE



LONDON DEPOT
 25 New Bond Street W.
 Ld.

ESSENCE
 OF
 RHINE VIOLETS
 HIGHEST CONCENTRATION
 Prepared by
 FERD. MULHENS
 Cologne
 COLOGNE



Telegrams—"REFRESHING LONDON."

27

SIX GOLD MEDALS and ONE SILVER
MEDAL awarded.
HIGHEST AWARD at CHICAGO.

COLEMAN'S WINCARNIS

OR
LIEBIG'S
EXTRACT OF MEAT & MALT WINE
Is a delicious beverage and tonic made from
Port Wine, Liebig's Extract of Meat, and
Extract of Malt.

WINCARNIS

Is a New Name Registered to prevent fraudulent imitations

OVER FOUR THOUSAND

Unsolicited Testimonials have been received from
Medical Men.

IMPORTANT UNSOLICITED TESTIMONIAL FROM
T. POYNTZ WRIGHT, Esq., Medical Officer of Health,
New Street, St. Neots.

New Street, St. Neots, January 28th, 1894.

I have much pleasure in giving you my experience as to
the "Meat and Malt Wine" received from you some time
since, and in bearing testimony as to its value as a recuperative
and restorative agent.

In the early part of last year my wife was seriously unwell,
suffering from loss of flesh and appetite, together with
mental and bodily exhaustion and sleeplessness. She was
under treatment for a considerable time without relief, and
I at last determined to try "Wincarnis."

The effect was marked, and convalescence commenced from
that date; the appetite returned and the weight hourly
increased, and in about two months the health was restored,
and this result was in a great measure attributable to the
use of "Wincarnis"—of this I feel certain, that in many
cases this preparation is a most valuable adjunct to
medicinal treatment.

T. POYNTZ WRIGHT,
Medical Officer of Health, St. Neots.

WINCARNIS

Issued by all Druggists, Wine Merchants, and Patent-medicine
Vendors. Ask for Coleman's "Wincarnis," or Liebig's
Extract of Meat and Malt Wine, and see that the word
"Wincarnis" is on the shoulder of the bottle.

Sold in Bottles, 2s. 9d. and 4s. 6d., everywhere.

If there is any difficulty in getting the Wine, write direct to
the manufacturers, who will forward

Sample Pint Bottle free by Post on receipt of 33 stamps

„ Doz „ „ Rail „ 30s.

SOLE MANUFACTURERS:

COLEMAN & CO., LIMITED,

ST. GEORGE'S AND BANK PLAIN, NORWICH;
AND 3 NEW LONDON STREET, LONDON, E.C.

*Sole Proprietors of "Ozmazon," the New Beef Tea, Coleman's Crown
Imperial Invalid Stout, and also Coleman's Crown Imperial Invalid Cham
pagne, which is strongly recommended by the Medical Faculty.*

Under certain conditions the cost of a Foreign
Wine Licence will be defrayed. For full particu-
lars apply to **COLEMAN & CO., LIMITED,**
Wincarnis Works, NORWICH.

BOVRIL.

What it is!

BOVRIL is Beef, the entire lean of the Best
Beef procurable. Not the Forty Pounds Weight of Beef
which would have to be eaten before the nourishment con-
tained in One Pound of Bovril could be imparted to the
system, but Forty Pounds of the prime parts obtained from
the finest selected Cattle reared in Australia and South
America, concentrated by a special process, rendering it
the most perfect form of strengthening, stimulating, easily
digestible nourishment in the smallest possible bulk.

INVALID BOVRIL

Especially prepared for use in the Sick Room. It is put up
in porcelain jars and sold by Chemists and Druggists only;
and it differs from ordinary Bovril in being more concen-
trated and quite devoid of seasoning, and is relished and
retained by Invalids when ordinary food and stimulants are
rejected.

BOVRIL, Ltd., Food Specialists, LONDON.

Chairman—**RT. HON. LORD PLAYFAIR, K.C.B., LL.D.**

A PROFITABLE EXTRA.

FINEST TEAS





TARALOUVA
Ceylon Pekoe Fannings
TEA
per 1/6 lb

DRINK
"TARALOUVA"
Ceylon Fannings
TEA,

Per 1/6 lb.

Sold only in Tins.

Wholesale only: 42 MINCEING LANE, LONDON, E.C.

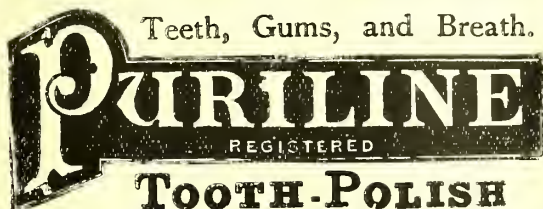
For Wholesale Terms and Agency apply to

PEARSE & MEEKING, Wholesale Tea Dealers,
St. Dunstan's House, Idol Lane, Eastcheap, London, E.C.

GOLD MEDAL
JAMAICA EXHIBITION.

PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath.



Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use.

Price 1/-, in handsome Enamel Box.

The POPULAR DENTIFRICE

WHICH SELLS AT SIGHT.

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The COURT CIRCULAR says:—"Puriline" emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D.C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, 21 New Park Road, LONDON, S.W.
Brixton Hill,
Proprietor of "Bunter's Nervine," "Dentine,"
and "Puriline."

GUARANTEED TO CONTAIN ARSENIC.**HADEINE.**

For Colouring the Hair. Sold in 6 tints, one liquid.

6d. Sample size ..	4/- per doz.
3/6 Large " ..	28/- "
10/6 Extra " ..	84/- "



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SAMPLES Supplied to the Trade on pretty hanging Showcards at 4/- per doz.

This Popular Article is Largely Advertised, and kept at all Wholesale Houses.

Agents Wanted.

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON.**CARMICHAEL'S GENUINE AMERICAN MANICURE PREPARATIONS**

A FULL 6d. LINE (miniature sizes of his regular Goods). You have only to show them, **THEIR SALE IS ASSURED**, and will be **AS GOOD** a line as his now **FAMOUS Violet AMULETS**, including the novel production "**AMBERLAVE**," a **FLUID TOILET SOAP**.

All at 48/- per gross.

FRO ALL WHOLESALE AND EXPORTING HOUSES

Nail Files, Emery Boards, Bleachine, Cleansing Powder, Orange Wood Sticks, Cosmetic Brush, Cosmetic Aurora, Agate Nail Powder, Oriental Nail Varnish, Suc de Mimosa, Cuti Cream and Amberlave

'HYPATIA'

THE NEW TOILET SOAP.

HUGGINS' SOAP WORKS, Lim., are now appointing Agents amongst respectable Chemists in all the leading towns in the United Kingdom.

Unprecedented favourable terms to the first Three Hundred appointed.

Apply, **HUGGINS' SOAP WORKS, LIM.**
GRAVESEND, KENT.

MESSRS. D. & W. GIBBS, LD.

CITY SOAP WORKS,
LONDON.

Offices and Showrooms:

16 FINSBURY CIRCUS.



Trade Mark. Registered.



**THE ORIGINAL SUPERFATTED AND FAMOUS
COLD CREAM SOAP**

"Otto,"

"Toilet,"

"Medicated."

Wrapped and Cartoned in 1 dozen
or 1/2 dozen Boxes.

This Soap is delicately Perfumed, and made with the utmost care from the finest materials only, and a Certificate of Purity is given with each tablet. The above are protected by our Registered Trade Mark given above, and every wrapper bears this, so that customers are warned against worthless imitations.

COLD CREAM SHAVING SOAP

Messrs. GIBBS have at last succeeded in giving their customers a Shaving Soap which is far ahead of anything yet produced.

**THE ROYAL
PERFUME.**

Prepared by the Proprietors of
"PHŪL-NĀNĀ"
 The New Indian Perfume.



GROSSMITH'S
 Tribute of
 Fragrance
 In commemoration
 of
 Her Majesty's
 Reign.
Victorian
 "A rare collection of exotic Odours
 culled from the Flora of
THE BRITISH EMPIRE."
BOUQUET
 PERFUME 2/6 per bottle.
 SACHETS 6^d each.
J. GROSSMITH, SON & CO. Newgate St. LONDON.

**AN UNDYING
FRAGRANCE.**

Distilled by the Proprietors of
"HASU-NO-HANA"
 The New "Japanese" Perfume.

Of all Chemists and Perfumers throughout the Empire.

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

ESTABLISHED HALF A CENTURY,

MANUFACTURING PHARMACEUTICAL CHEMISTS

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

SPECIALITIES:—

SOLID AND LIQUID EXTRACTS

EXPRESSED JUICES.

ESSENTIAL OIL OF LAVENDER

ESSENTIAL OIL OF PEPPERMINT.

SCAMMONY RESIN.

JALAP RESIN.

ELATERIUM.

MERCURIAL PILL AND OINTMENT.

ALOID.

EUONYMIN.

LEPTANDRIN.

DRIED MEDICINAL LEAVES.

ENGLISH DANDELION ROOT.

All Standardised Preparations of the British Pharmacopoeia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1887.

CLAUDE RAYNAUD & CO.
GRASSE, FRANCE.

Raw Materials for PERFUMERY, ESSENTIAL OILS,

CONCENTRATED FLORAL EXTRACTS,

FLAVOURING ESSENCES for CONFECTIONERS ("DELICIOSA" BRAND)

COMPOUND PERFUMES for SOAPMAKERS.

F. DUBOC, Sole Agent for the United Kingdom, **DUNEDIN HOUSE, BASINGHALL AVENUE, LONDON, E.C.**

S. V. METH.

JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

**We are prepared to supply METHYLATED SPIRIT in
 5-gallon quantities at Lowest Prices.**

REDUCTIONS TO LARGE BUYERS.

SAMPLES FREE.

A LEADING LINE—ALWAYS IN DEMAND!

M. BEETHAM & SON

Beg to announce that in order to insure a fair profit to the Retail Trade, and to endeavour to do their part in the effort now being made to put an end to the suicidal system of "Cutting" so prevalent in the Trade, they have decided from October 20th to fix minimum prices at which their Glycerine and Cucumber, Hair Grower, &c., &c., shall in future be sold.

M. BEETHAM & SON trust that their endeavour to give the Retailer larger profits will be reciprocated, and that he will in return help them to increased business by freely and ungrudgingly letting the public have the articles for which they ask. So shall the benefit be mutual, and not all on one side.

		Minimum Retail Price.	Minimum Wholesale Price.
Beetham's Glycerine & Cucumber	1/-	10½d. each	8/6 doz.
" " "	1/9	1/7 "	15/- "
" " "	2/6	2/3 "	20/6 "
" " "	4/6	4/- "	38/6 "
" Capillary Fluid & Hair Grower	2/6	2/3 "	20/6 "
" " " " "	4/6	4/- "	38/6 "
" Corn Plaster	1/1½	1/- "	9/6 "
" " " " "	2/9	2/6 "	24/- "

£5 Lots single or assorted Goods, 5 % discount for CASH WITH ORDER.

Show Cards, Handbills with name on, and Window Dummies supplied free on receipt of Business Card by

M. BEETHAM & SON, CHELTENHAM.

All cases of "Cutting" should be reported to the SECRETARY, P.A.T.A., 2 Stonecutter Street, E.C.

MARSHALLS, LIMITED,

27 RED LION SQUARE, W.C.,

MANUFACTURERS OF

PATENT "REEL" FLY CATCHER, HILL'S CAJUPUT JELLY,
AND FILLERS OF PATENT ENAMELLED TUBES TO THE TRADE.

Send Formulæ or
Preparation in
bulk; by return
post lowest cash
quotation will be
forwarded.

**PRETTY TUBES,
ARTISTIC GET UP
AND FINISH.**



Glycerine and Honey
Jelly.
Cold Cream (Otto).
Tooth Pastes.
Creme Violetta.
Boot Creams.
Vaseline.
Pomade Hongroise.

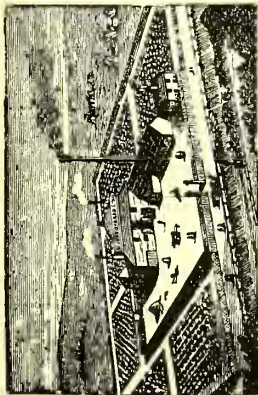
**VIOLET
MEDALLIONS.**

THE SUCCESS of the SEASON.

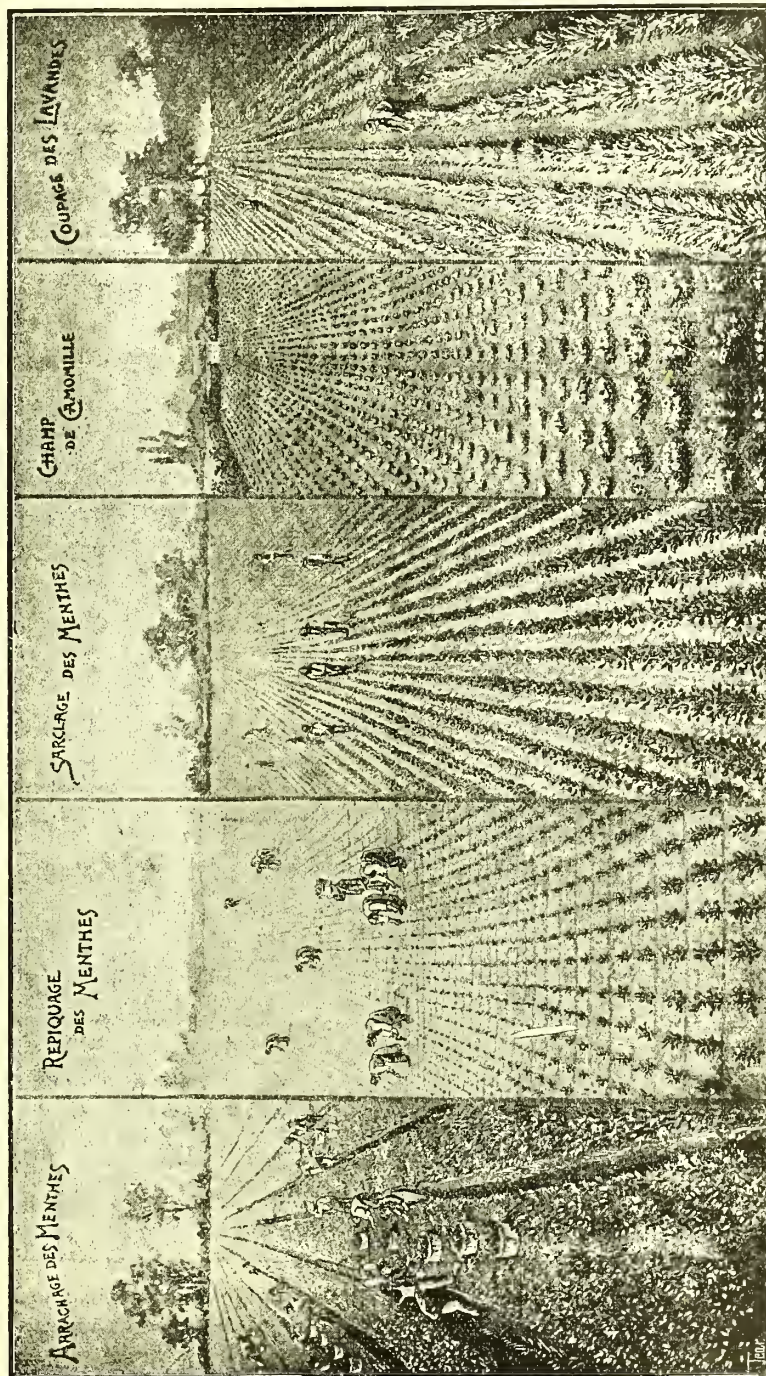
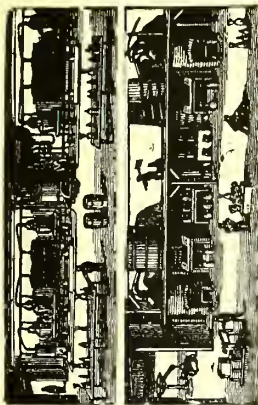
Please note new Address, 27 RED LION SQUARE, W.C., where please address all Letters.

JOHN JACKSON & CO

GROVERS AND DISTILLERS OF PEPPERMINT, LAVENDER, CAMOMILE, &c.
 Mitcham Road Steam Distilleries, CROYDON (Surrey). 17 Philpot Lane, Fenchurch
 Street, LONDON, E.C. Depot—4 Rue Payenne, PARIS.



HIGHEST AWARDS AT PRINCIPAL EXHIBITIONS. 6 Gold, Silver, and other Medals awarded—Milan, 1880; Paris, 1889; Liverpool, 1886; Paris, 1889; Antwerp, 1885; London, 1880;
 Lyons Universal Exhibition, 1884—"Hors Concours", Member of Jury.



Mitonam has been renowned throughout this and part of the previous century for the successful cultivation of peppermint, lavender, and other medicinal plants from which oils of superior quality have always been produced, but at no previous period have the means for obtaining products of the highest quality been so successfully carried out as they have been since the introduction of Messrs. Jackson's system.

T. REDWOOD, Ph.D., F.I.O., F.C.S., ETC.,
 Emeritus Professor of Chemistry and Pharmacy to the Pharmaceutical Society of Great Britain.

17 BLOOMSBURY SQUARE, LONDON, 9th January, 1886.
 Having visited the cultivation grounds and distilleries of Messrs. John Jackson & Co. at Mitcham, devoted to the production of lavender, peppermint, and other essential oils, and having submitted samples of the lavender and peppermint oils prepared by this firm to a careful physical and chemical examination, I can bear testimony to the very complete arrangements, with all modern appliances, which are here provided for distilling essential oils, and to the excellent quality of the oils so distilled.

The only firm in England occupied solely in the Cultivation & Distillation of PEPPERMINT, LAVENDER, CAMOMILE, ROSEMARY, & PENNYROYAL OILS
 TWO DISTILLERIES—STEAM AND OPEN FIRE.
 Farms & Cultures—MITCHAM, WALLINGTON, BEDDINGTON, CARSHALTON.
 All Oils bearing our Trade Mark are guaranteed Pure and Genuine.

HAS THE HIGHEST HONOURS
AND
LARGEST SALE IN THE WORLD
OF ANY PREPARATION FOR THE HAIR.

SPECIALLY
PREPARED
AND
PERFUMED
FOR
TOILET USE.



UNEQUALLED
FOR
PROMOTING
THE GROWTH
OF
THE HAIR.

New and handsomely framed Show Card (facsimile) of above design in Twenty Colours (size 24 by 16) now ready, and will be forwarded free of charge to all retailers of our "HARLENE," together with 1,000 Counter Bills with seller's name and address printed at foot, on application. [2]

Full discount of 20 per cent. off the trade prices to all buyers of £5 and upwards.

EDWARDS' "HARLENE" COMPANY, 95 HIGH HOLBORN, LONDON, W.C.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.		Per gross.	Extra quality.
14. Sample Bottles, dozen parcels	5/3	6/3	1/2 Bottles, flat or round, reputed half-pints	18/-	26/-
" " 1-gross boxes	5/9	6/9	" " " pints	26/-	38/-
14. Giant " dozen parcels	6/-	8/6	1 Pint Imperial, round stoppered bottles	52/-	62/-
" " 1-gross boxes	6/6	9/-	12 1/2-Gallon Casks (casks free)	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour

Square Glass Stoppered Bottles, containing nearly 1/2-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.
CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

BRAND & CO.'S MEAT JUICE.

IN BOTTLES,
Price 28/- per dozen,
Less the usual discount.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.



NESTLE'S Condensed SWISS MILK.

THE RICHEST IN CREAM.

PERCENTAGE OF BUTTER FAT.

Six Samples of NESTLE'S MILK bought at random at six different shops, and analysed by Mr. OTTO HEHNER, late President of the Society of Public Analysts, contained AN AVERAGE OF

13.13 per Cent. of BUTTER FAT.

Sample Tins sent free to the Medical Profession on application to HENRI NESTLE, 48 Cannon Street, London, E.C.



BURROUGH'S "RED CROSS BRAND" COCA WINE.

WRITE FOR PRICES AND SAMPLES.

Dr. A. B. GRIFFITHS says, "Second to none in the market."—Aug. 24, 1896.

CALE STREET DISTILLERY,
CHELSEA,
LONDON, S.W.Also S.V.R. & S.V.M.
At Lowest Prices.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

S. M. FRANKENSTEIN & CO.**LONDON & MANCHESTER,**

SOLE AGENTS AND CONSIGNEES FOR THE

PURE SALAD COTTON SEED OILand **WHITE COTTON SEED OIL (UNION BRAND)**

MANUFACTURED BY THE

AMERICAN COTTON SEED OIL COMPANY.**GENUINE AFRICAN
GROUND NUT OILS** } (VF Brand).**LUCCA & PROVENCE OLIVE OILS (Warranted Genuine).****GELATINES** (Proprietors of the "Calf" Brand).**CASTILLE AND INDUSTRIAL SOAP.****CARMINE (UNRIVALLED SPECIALITY).**

Artificial **Perfumes and** *Flavours.*
THE BEST AND PUREST.
BY SPECIAL SYNTHETIC PROCESSES.

MANUFACTURED BY

CHUIT & NAEF,
GENEVA.

Sole Agents and Consignees for the British Isles:

S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street, LONDON, E.C.

Essential Oils

FLORAL EXTRACTS, CONCRETE ESSENTIAL OILS,
POMADES, AND DISTILLED WATERS,

MANUFACTURED BY

F. VARALDI, CANNES.

ESTABLISHED 1858.

Specialties—*Riviera Violet Extract, Ess. Oil Geranium,
Pomades, and Almond Oil.*

SOLE AGENTS IN THE BRITISH ISLES:

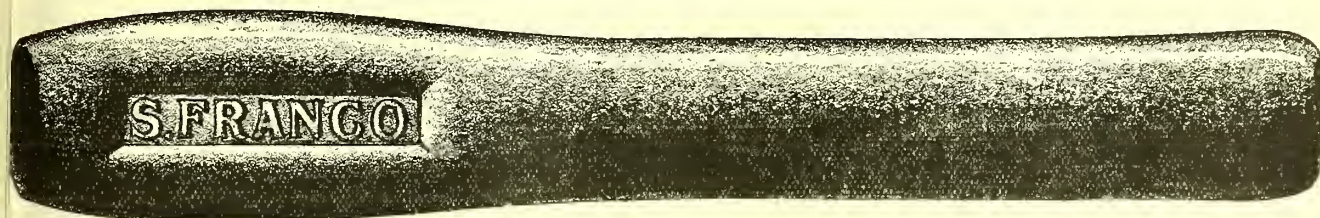
S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street, LONDON, E.C.

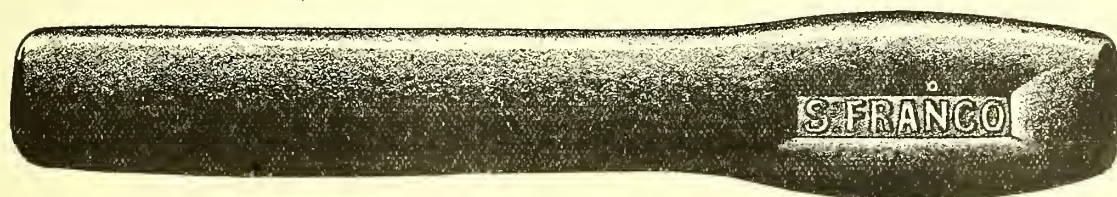
LIQUORICE JUICE IN STICKS.

FINEST ITALIAN.

GUARANTEED ABSOLUTELY PURE.



Sticks $4\frac{1}{2}$ to the lb. and 8 to the lb.



SOLE CONSIGNEES:

S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street, LONDON, E.C.

SYNTHETIC & OTHER PRODUCTS

MANUFACTURED BY THE

Société Anglo-Française des Parfums Perfectionnés, Limited,
WORKS, COURBEVOIE, PARIS.

W. J. BUSH & CO.

(LIMITED),

ARTILLERY LANE, LONDON,

SOLE VENDORS for the ENTIRE WORLD

AUBEPINE S.A.F. (Mayblossom)Powder.
Liquid.**CEILLET S.A.F. (Carnation)**

An entirely new perfume, and most true in character and exceedingly strong. Especially adapted for use in perfumery and scented soaps (milled process).

COUMARIN S.A.F. (Tonquin)**GARDENIA S.A.F.**

A new perfume; most true in character and exceedingly strong. Recommended for use in perfumery and scented soaps (milled process).

HELIOTROPINE S.A.F. Special Quality**OIL OF LEMON S.A.F. Synthetic Terpeneless**

This is an entirely new product, and perfectly true in perfume and flavour. It is about 15 to 20 times stronger than the best qualities of Oil of Lemon, and 40 to 50 times stronger than the cheaper kinds. For use in Confectionery and Biscuits it is most economical and advantageous in every way.

MUGUET S.A.F. (Lily)**NEROLIN S.A.F.**

Highly suitable for perfuming soaps; is exceedingly powerful, and works out exceptionally cheap in use.

OIL ROSES S.A.F. (French A)

" " (" B)

This is a synthetic Otto of Roses, and valuable as an economical substitute.

QUARANTAINE S.A.F. (Pinky)**ROSE MOSS** "**ROSE TEA** "

These Roses are manufactured by a patented process, and are very true in character. Especially adapted for use in perfumery and scented soaps (milled process).

TERPINEOL S.A.F. (Lilac)**YARA YARA S.A.F. (Acacia)**

VANILLIN S.A.F.

As a considerable fall has taken place in the price of this article, please ask for quotations before ordering.

WHOLESALE TRADE ONLY.**STAFFORD ALLEN & SONS**

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

AND

DISTILLERS OF ESSENTIAL OILS,**7 COWPER STREET, FINSBURY, LONDON, ENGLAND.****EXPRESSED OILS****ALMOND** (Ol. Amygd. Dulc.)**PEACH KERNEL** (Ol. Amygd. Persic. Dulc.)

Frequently imported as Ol. Amygd. Exot.

CROTON**ESSENTIAL OILS****ALMOND****ANISEED****BUCHU****CARAWAY****CARDAMOM****CELERY****CINNAMON****CLOVE****CORIANDER****CUBEB****CUMMIN****DILL****JUNIPER****NUTMEG****ORRIS ROOT****PEACH KERNEL****PEPPER****PIMENTO****SANDAL WOOD**

AND OTHERS.

HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."**GEORGE ALLEN & CO.**

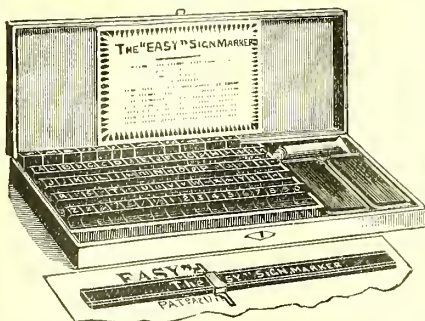
(ESTABLISHED 1846),

AMPTHILL, BEDFORDSHIRE, ENGLAND,**MANUFACTURING CHEMISTS,**

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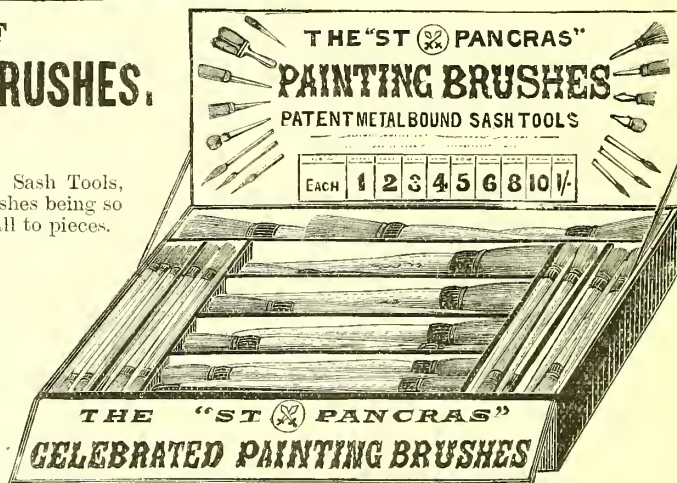
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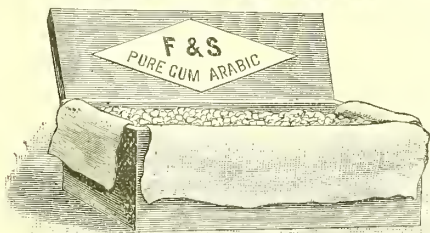
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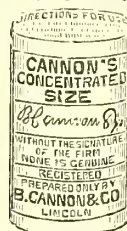
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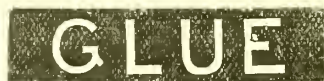
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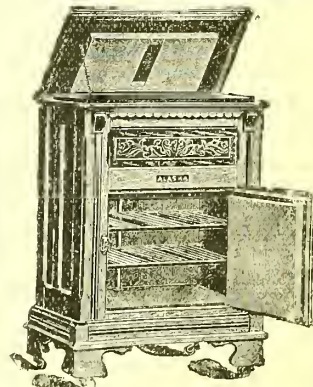
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Raines & Co.
"Solazzi" | Warrick Bros.

LUNG PRESERVRS

Zimmer & Co.

MACHINERY

Bennett, Sons & Shears, Lim.
Gardner, W., & Sons
Melin, C. | Pindar, J. W.
Volcanic Aeration Co.
Werner, Pfeiderer & Perkins, Lim.

MAGNESIA

Bleasdale, W., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Hend, T. W., (Calcedin)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRACT, &c

Allen & Hanbury
Anderson & Co.
Blackwell, Hayes & Spilsbury
Burroughs, Wellcome & Co.
(Kepler's)
Davies, Gibbins & Co.
Distillers' Co., Lim.
Evans, Gadd & Co.
English Distastie Malt Ex-
tract Co., Lim.
Hearon, Squire & Francis
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Raines & Co.
Raines, Clark & Co.
Robinson & Co.
Standard Malt Ext. Co., Lim.

MANICURE

Hovenden & Sons

MARKING INKS

Bond Daughter of the late
John (Ink and Pencils)

MEDICINE CHSTS

Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL

Ayrton & Saunders
Evans, Lescher & Webb
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS

Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRITS, &c.

Boord & Son | Burrough, J.
Lloyd & Co. | Phillips, G., & Co.
Smith, S., & Co.
Warren, A., & J.

METHYLENE

Robbins, J., & Co.

MICROSCOPES

Darton, F., & Co.
Hicks, J. J.

MILK

Hawkesley, T. (Sterilize)
Horlick & Co.
Nestlé, H. (Condensed)

MORPHIA

Reynon & Co.
Macfarlan, J. F., & Co.
Smith, T., & H., & Co.

OILS, &c.

Anglo American Drug Co.
Calvert Bros. & Co.
Carless, Capel & Leonard
Hooper, B., & Co. (Sancoal Wood)

OINTMENT

Burroughs, Wellcome & Co.
(Lanoline)
Cheesbrough Co. (Vaseline)
Davies, Gibbins & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.

OPTICIANS

Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

OXIDE OF ZINC

Hubbard, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINIDS

Oppenheimer, Son & Co., Lim.

PASTILES

Jackson, T.

PAT. MEDCNS, &c.

Anglo American Drug Co., Ld.
Antikarnia Chemical Co.
Atkins' Lung Healer
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr. Liniment
Clarke's Blood Mixture
"Daisy" Headache Powders
Edwards & Sons
Evans, Lescher & Webb
Evans, Sons & Co.
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Guy's Tonic
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Richards, J. C., & Co.
Roberts & Co.
Wilson, A. (Bunter's Nerveine)

PENS

Jewel Pen Co.

PEPSIN, &c.

Burroughs, Wellcome & Co.
Armour & Co.
Cerebos Limited (Pepsalia)
Kuhn, B. (Pain Finkler)
Newbery, F., & Sons (Inglavin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.

PERFUMERY.

FANCY SOAPS

Barclay & Sons, Lim.

Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Brager, L.
Burgoyne, Burbridge & Co.
Burroughs, Wellcome & Co.
Carmichael, M. W.
Cheesbrough Co.
Cook, E., & Co.
Corliss Stacey & Co.
Crown Perfumery Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Frankenstein, S. M., & Co.
Grosvenor, Son & Co.
Guy's Tonic
Hovenden & Sons
Lanoline
Lynch & Co., Lim.
Moise, B. F., Lim.
Nulhens, F.
Newbery, F., & Sons (Berdoes)
Pears, A., & F., Lim.
Pears' Patent Candle Co.
Sanitas Co., Lim.
Schutze, F., & Co.
Sharp Bros. Soap & Perfumery
Co., Lim.
Snelcar, Jos., & Son
Tidman & Son | Treat, R. C.
Truefit, H. P., Lim.
Warrick Bros.
West, T. (Oell's Monn)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEPPERMINT OIL

Bush, W. J., & Co.
Jackson, J., & Co.
Ransom, W., & Son
Stevenson & Howell
Todd, A. M.

PEROX. OF HYDR

May & Baker, Lim.
Robbins & Co.
Sanitas Co., Lim.
Tyrer, T., & Co.

PETROLEUM JELLY

Allen & Hanbury
Christy, T., & Co.
Dee Oil Co., Lim.
Snowdon, Sons & Co. (Jelly)

PHARM. PREPS.

Allen & Hanbury
Armour & Co. | Baile Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Burbridge & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Dieterich, Eugen
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Farris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Kuhn, E.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Potter & Clarke
Richards, J. M.
Roberts &

RENNET

Duncan, Flockhart & Co.
Lorimer & Co.
Müller & Co.
Tomlinson & Hayward

RUBBER GOODS

Powell & Barstow

SALICIN

Macfarlan & Co.
Smith, T. H., & Co.

SALICYLIC ACID

Burgoyne, Burdidges & Co.
Zimmermann, A. & M.

SARSAPARILLA

Potter & Clarke

SAUCES, PICKLES

Goodall, Backhouse & Co.
Maw, S., Son & Thompson
Tyrer, P.

SCHOOLS, &c.

Central (Edinburgh)
City School (Skerry's)
Glasgow School of Pharmacy
Liverpool School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Royal Dispensary (Edinburgh)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
Westminster College

SCIENTIFIC**INSTRUMENTS**

Darton Co. | Hicks, J. J.

SEA SALT

Tidman & Son, Lim.

SEEDS

Brook, Parker & Co.
McCausland, S.
Potter & Clarke
Spratt's Patent, Lim. (Bird)

SEIDLITZ POWDERS

Davies, Gibbins & Co.
Hors & Co. | May, Roberts & Co.

SELTZGENES

Bratby & Hinchliffe, Lim.
May, Roberts & Co.
Volcanic Aeration Co.

SERUM

Greiff, R. W., & Co.

SHAVING

Hovenden & Sons (Euxesla)
Lloyd, A., & Co. (A. S. Lloyd's Euxesla)
Truefitt, H. P., Lim.

SHEEP DIP

Fletcher Bros & Co.
Harescough & Co.
Jeyes Sanitary Compounds Co.
Kühn, B. (Kresochine)
Ness & Co.
Sanitas Co., Lim.

SHOP FITTERS

Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Josephs, C., & Co.
Josephs, Philip
Mills, H.
Treble, G., & Son
Yates, W. S.

SOAP

Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Gibbs, D., & W. (Medicated)
Huglin's Soap Works, Lim.
Jameson, W. (Arsenical)
Jeyes' Sanitary Compounds Co.
Mackenzie's, Dr. (Arsenical)
Meypole Soap Co., Lim.
Muhlen, F.
Pears, A. & F., Lim.
Sanitas Co., Lim.
Sharp Bros. Soap, &c., Co., Ltd.
Sinclair, J., & Son
Tidman & Son
Wright, Layman & Umney

SPECTACLES

Edwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES

Cohen, I. & M.
Cresswell Bros. & Schmitz
Peterson, M., & Co.

STAMPS (RUBBER)

Hickisson, J.

STARCH

Critchley (Gloss)
Hebden, W. C.

STEEL BARRELS

Iron and Steel Plant Co., Lim.

STOPPERS

Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Patent Stopper Box, and
Stamping Co., Lim.
Stipendium Stopper Co., Lim.

STOVES

Clark, S., & Co., Lim

SUGAR

Macfie & Sons

SUGAR OF MILK

Boehm, Fredk.

SURGICAL

Accerington Surgical Appliance Co.
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim. [Co.
British-American Ball Nozzle
Burgoyne, Burdidges & Co.
Cocking, J. T.
Eschmann Bros. & Walsh
Ferrals & Co.
Haywood, J. H.
Ickringill's Hygienic Cloth
Syndicate, Lim.
Krohn & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Manson, R.
Maw, S., Son & Thompson
Milne, J.
Oppenheimer, Son & Co.
Powell & Barstow
Quicke, H. C.
Robinson & Sons
Sanitas Co., Lim.
Schulze, F., & Co.
Victoria Rubber Co
Wood, Vincent
Woodruff, T.

SYPHONS

Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon Mfg. Co.
Chemists' Aerated and Mineral
Waters Association, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS

Beckett, W., Sons & Co.
Blyton, Astley & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell
Volcanic Aeration Co.

TABLETS

Corsan, J. R. (Advertising)
Davies, Gibbins & Co.

TEA

Pearse & Meeking
Tower Tea, Lim.

THERMOMETERS

Ayrton & Saunders
Bailey, W. H., & Son
Darton, F., & Co.
Hicks, J. J.

TEETHING PADS

Cartwright, A. S.
Marriott, E., & Co.

TOBACCO & CIGARS

Singleton & Cole, Lim.

TINCTURES

Blackwell, Hayes & Spilsbury
Davies, Gibbins & Co.
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Sinclair, Phillips & Co.
Wyleys, Lim.

TOILET

Ayrton & Saunders
Beetham & Son
Burroughs, Wellcome & Co.
Dee Oil Co., Lim. (Lanoline)
Hovenden & Sons
Lynch & Co., Lim.
Maw, S., Son & Thompson
Moise, B. F., Lim.
Pegcock's Ovaline Soap Co., Lim.
Pinnacle Soap Stand Co.
Sanitas Co., Lim. [Co., Lim.
Sharp Bros. Soap & Perfumery
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Truefitt, H. P., Lim.

TOOTH PASTE

Beecham, T.
Jewsbury & Brown
Lutheni & Co.
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Wilson, A. (Bunter's)
Woods, M. (Arecia)

TRADE MARKS

Browne, T. B.

URETHANE

Hovenden & Sons

VACCINATION

Maw, S., Son & Thompson
Vaccine Association (Lymph)

VALUERS AND**TRANSFER AGENTS**

Berdoo & Co. | Brett, F. J.
Crocker, G. B., & Co.
Ferguson & Osborne
Orridge & Co.
Tomlinson, Thos., & Son

VASELINE

Chesebrough Co.

VETERINARY

Bird & Storey
Davies, G. F. | Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co. | Leng, A., & Co.
Lloyd, T. Howard, & Co.
Rookledge, P. E.
Sanitas Co., Ltd. | Spratt's (Dogs)
Walker, Troke & Co.

VINEGAR

Grimble & Co.

VINOLIA Superfatted

Blondeau et Cie.

WEED KILLER

Acme Chemical Co., Lim
Fletcher Bros. & Co.
Mark Smith, Ltd.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT**DRUGGISTS**

Allen & Hanburys
Allen, S., & Son | Baiss Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Brook, Parker & Co. (Botani)
Burgoyne, Burdidges & Co.
Push, W. J., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hill
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Staggs & Morgan
Hearson, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clark
Raines & Co.
Raines, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINE, SPIRITS, &c.

Burgoyne, P. S., & Co.
Burroughs, J.
Coleman & Co., Lim.
French Hygienic Socy. (Coca)
Goodall, Backhouse & Co.
Holloway, E.
Mead Manufacturing Co. (Vin Kafa)
Millar, A., & Co. (Orange)
Phillips G. & Co. | Robinson, B.
Smith, S., & Co. (Orange)
Stevenson, H. E., & Co.
Symons, J., & Co., Lim.
Warren, A., & J.
Whitbread & Co.
Wilcox & Co.
Wright, Layman & Umney
Wyleys, Ltd.

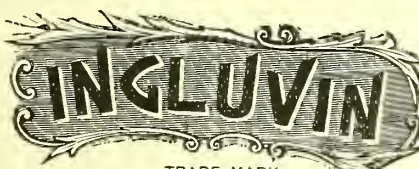
WM. R. WARNER & CO., PHARMACEUTICAL CHEMISTS.

SIXTEEN INTERNATIONAL PRIZE MEDALS AWARDED.

Only "Grand Prix" awarded to any American Exhibit in Group 13 (Chemical Industries), Antwerp, 1894



TRADE MARK.



TRADE MARK.

Bromide of Sodium with Caffeine, in the Granular form. Very carefully and evenly made. Invaluable in Brain Fatigue arising from Overwork, etc. The *Lancet* (August 6, 1887, p. 265) states that "the Sodium compound does, in fact, agree better (than the potassium salt) with some stomachs."

Unequalled in their medicinal properties or in SOLUBILITY. Each pill will produce the effects expected, and an experience of thirty years, coupled with unremitting care and study, has enabled the manufacturers to achieve RESULTS OTHERWISE UNATTAINABLE.

COUNTER VASES OF PILLS, &c.

Elegant Counter Vases, of four different patterns and sizes. Prices from 4/10 upwards including 1,000 Pills. See full details in Warner's Price List.

"No. 120" is an "all round" Antibilious or Liver Pill which has found universal favour.

R. Podophyllin, $\frac{1}{2}$ gr.; Ext. Colocynth, $\frac{1}{2}$ gr.;	Per 1,000,	Per Stopped	Per Bottle
Pv. Soc. Aloes, 1 gr.; Pv. Scammony, $\frac{1}{2}$ gr.;	in Plain	Vase, with	(Bulk)
Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.;	Bottle	painted glass	of 5,600
Gingerine, 1-8 gr. Dose, 2 to 4.	4/-	label, 6/4	17/6
			34/2

The essential principle of the gizzard, and bearing the same relation to poultry that pepsin does to the higher animals. Where pepsin refuses to act, and where, in severe cases, it has even been rejected by the stomach, Ingluvine has rapidly effected relief. Per oz. Bottle (stamped), 4/6. Supplied unstamped, and in 4-oz. bottles (also in lentiforms) for Dispensing.

British Depot—**F. NEWBERRY & SONS** (Established over 150 years).

1 & 3 KING EDWARD STREET, NEWGATE STREET, LONDON, E.C.

Complete Catalogue, with Formulæ, free on demand. Newberry's Annual Catalogues also contain full details of these Preparations.

THE FLYODOOMO FLY STICKERS

Catch Flies and Hold Them

*They are the Cleanest,
Stickiest, and Best Fly
Papers in the Market.*

Carefully rolled up so that
the Composition cannot
possibly get outside.

Large Buyers should
write for Samples and
Quotations.

1/4d. and
1d.
SIZES.



JOHN H. SMITH
NEWARK-ON-TRENT.

THE "ACME" WEED KILLERS

Have now a large sale through CHEMISTS, and early application should be made for Illustrated Counter Bills and Show Cards.



POWDER WEED KILLER.

Packed in small decorated tins.
Immediately soluble in cold water.
All tins Free.
No return empties.
Specially adapted for Export.

LIQUID WEED KILLER.

Strength: 1 gall. sufficient for 25 galls. of water.

DOUBLE STRENGTH.

1 gall. sufficient for 50 galls. of water.

Liberal terms to the Trade.

Write for 1897 Price List.

GENUINE KENTISH COMPRESSED HOPS.

In 1-lb. and 1/2-lb. packets, with directions for making Hop Ale, Hop Bitters, &c.

Also best Kentish Hops in bulk.

QUASSIA CHIPS, QUASSIA CUPS, &c.

SOLE PROPRIETORS AND MANUFACTURERS—
THE ACME CHEMICAL COMPANY LIM.
TONBRIDGE, KENT,
And **CARLTON ST., BOLTON, LANCASHIRE.**

CAMPHORTAR

8/- per Gross.

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A powerful Disinfectant, Deodoriser, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S CHLORIDE OF LIME

IN
AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES
Samples on application.

Manufactured only by

W. C. HEBDEN, ALBANY WORKS, YORKSHIRE.

DIAMOND EMERY CO.

(LIMITED).

DIAMOND BRAND.

MANUFACTURERS OF

EMERY STONE	EMERY CLOTH
EMERY CORN (all sizes)	GLASS PAPER
EMERY RUBBERS	GLASS CLOTH
EMERY FLOUR	GROUND GLASS
EMERY PAPER	KNIFE POLISH
POLISHING PASTE & ALL POLISHING MATERIALS	

Works: Garston Docks.

Head Office—136 THE ALBANY, LIVERPOOL.

W. F. SMITH'S PILE POWDERS

(Price 1/1½, Treble Box 2/9; by Post 15 or 33 Stamps)

Are proved by many years' extensive experience a most Rapid Cure for Piles and Preventive of Fistula.

This Remedy may be implicitly relied on.

PREPARED ONLY BY

W. F. SMITH, M.P.S.,
280 WALWORTH ROAD,

And Sold through the usual London Houses "universally"
by Patent Medicine Vendors.

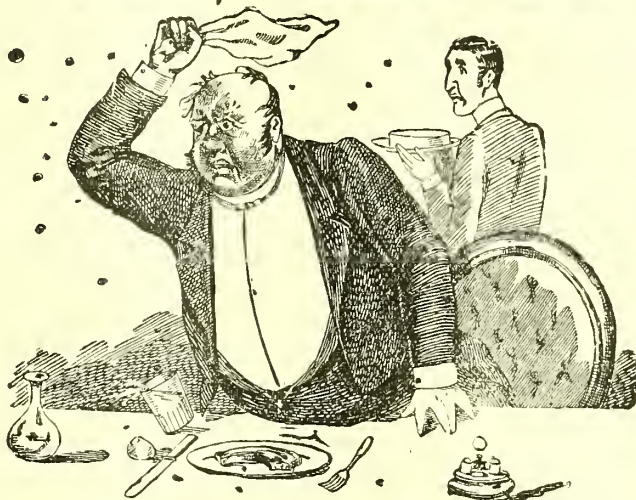
The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.

THE "FLY CEMETERY"

Catches more flies in a day than the old-fashioned Papers do in a week.

Beware of the many spurious imitations in the Market, which for the most part disappoint the purchaser.

Retail Price One Penny.



Well known in every Household in the Kingdom.

Bears large Profit.

Sold by all the leading Wholesale Houses in the Trade.

Liberal Terms.

Retail Price One Penny.

Manufacturers—TUNBRIDGE & WRIGHT, READING.

North of England Depot—4 Gallowgate, Newcastle-on-Tyne. Telegrams—"Flies Reading."

THE GREAT AND MARVELLOUS

INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

- "VIKO" will kill Cock-roaches.
- "VIKO" will kill Moths.
- "VIKO" will kill Fleas.
- "VIKO" will kill Bugs.
- "VIKO" will kill Mosquitoes.
- "VIKO" will kill Ants.
- "VIKO" will kill all Insects.
- "VIKO" will not kill Dogs.
- "VIKO" will not kill Cats.



REGISTERED.

"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

Sold in 3d., 6d., & 1s. Tins.

SOLE PROPRIETORS—

TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

DEALERS IN PATENT MEDICINES

Should always stock this preparation, which has the largest sale of any Smelling Bottle in the world.

It is well advertised, sells at sight, and bears a good profit.

Sent out in Fancy Cardboard Cases containing half a dozen Bottles.

Showcards and Handbills from

MACKENZIE'S
CURE DEPOT,
READING.



S. MAW, SON & THOMPSON'S

BEST QUALITY

TOOTH BRUSHES

72/- per Gross.



Each Bearing Trade Mark and Warranted.



NO CHARGE FOR STAMPING WITH NAME OF CUSTOMER, WHEN NOT LESS THAN 1 GROSS OF ANY PARTICULAR BRAND ARE ORDERED.

<p>3/9 & 7/- <i>Carbolic</i></p>	<p>MAW'S TOOTH PASTES</p>	<p>3/9 & 7/- <i>Almond</i></p>
	<p>WHITE ROSE 12/- & 20/- per doz.</p>	
<p>8/6 <i>Aromatic</i></p>	<p>RED OR WHITE CHERRY 3/9 & 7/-</p>	<p>3/9 & 7/- <i>Camphorated</i></p>

S. MAW, SON & THOMPSON, LONDON.

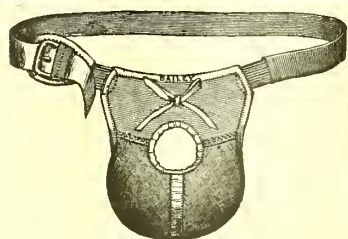


Fig. 2

BAILEY'S SUSPENSORY BANDAGES

A. B. C. SYSTEM.

What **"THE CHEMIST AND DRUGGIST"** says:—

Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus:—

To repeat,
quote No.

4^B SILK.

So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

Cabinet of 2 dozen assorted, **30/-** USUAL DISCOUNT. Containing—

6 No. 1, Cotton, with tape under-straps	...	Fig. 1	...	per doz.	8/-
6 No. 2, ,, ,, drawing-strings	...	Fig. 2	...	"	10/-
6 No. 4, Silk, with ,,	...	Fig. 2	...	"	18/-
8 No. 6, Super. Silk, with ,,	...	Fig. 2	...	"	24/-
8 No. 8, ,, ,, button-bags	...	Fig. 8	...	"	24/-

W. H. BAILEY & SON, 38 OXFORD STREET, LONDON, W.

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

THE SUSPENSORY BANDAGE

TO RECOMMEND IS

The "SYRACUSE,"

With SELF-ADJUSTING LOOP at back of Pouch.

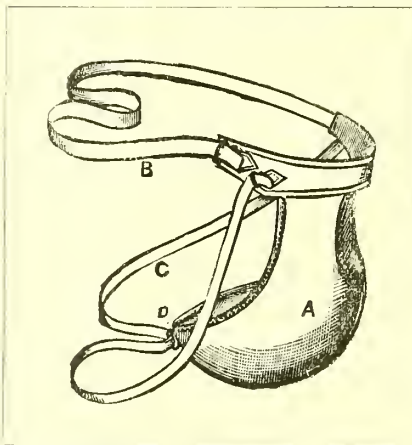
(PATENTED IN ENGLAND.)

HAS THE
LARGEST SALE
OF ANY
SUSPENSORY BANDAGE
IN THE STATES.

3 Sizes, Large, Medium, & Small.

Made in Seven Qualities, to
suit all Markets.

Each Bandage is carded separately
with Printed Guarantee.



Each Bandage bears a
Guarantee to give satis-
faction to Wearer, or
money returned at our
expense.

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Pharmaceutical Society of Natal.
Central Pharmaceutical Association of N.Z.
Otago Pharmaceutical Association.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.
Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.

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POSTCARD COMPETITION.

ONE GUINEA is offered for the most accurate forecast of the order in which the candidates for the Council of the Pharmaceutical Society will pass the poll. Names only (not numbers) are to be given on postcards, and the latest date for receiving these is May 10. Subscribers, their families, and staffs are eligible to compete. The candidates are Allen, Atkins, Bottle, Campkin, Carteighe, Corder, Grose, Hampson, Harrison, Hyslop, Martindale, Park, Savory, Southall, Warren, and Young.



THE new B.P. is making good progress (p. 667).

THE reports of German chemical companies on p. 659 are interesting.

MAKERS of photographic plates have combined to protect the prices of their goods (p. 672).

DR. WM. MURRELL has had popular face-powders analysed, and the results are given on p. 663.

THE successful candidates in the Irish Pharmaceutical examinations are named on pp. 651-2.

THE names of those who passed the Major and Minor examinations this month are printed on p. 654.

A CHEMIST'S assistant has been fined 2s. 6d. for being drunk. The tippie was paraffin oil, he said (p. 651).

CORONERS have investigated the deaths of two infants who had been improperly fed with proprietary farinaceous foods (p. 650).

IT is proposed to increase the stringency of the Minor examination by extending the botany and chemistry requirements (p. 664).

THE speciality question is exciting French pharmacists just now. Our Paris correspondent gives some particulars of the matter (p. 654).

IN the article on Röntgenography, technical and trade hints are given for the promotion of this art in association with pharmacy (p. 662).

THE opinions of Sir Edward Clarke, Q.C., and Mr. C. E. E. Jenkins on the legality of the methods of the P.A.T.A. have been taken, and are quoted on p. 655.

IMPURITIES in oil of lemon can be detected, according to Messrs. Soldiani & Berté, by fractionally distilling and determining the optical rotation of the fractions (p. 669).

OUR articles on the Irish Union drug-contracts seem to have borne some fruit in a more rigorous examination of the tenders, as will be evident from several paragraphs on p. 652.

A. J. WHITE (LIMITED), proprietors of Siegel's Syrup, offer that business to the public at one million sterling. The average annual profits are given at over 89,000l. (p. 659).

AN interview with Mr. Braxton Hicks, the Coroner, is reported on p. 661. It contains particulars of the Coroners' Society, and the views of that body regarding the sale of carbolic acid and similar poisons.

DR. BASTIN, Professor of Botany and Materia Medica at the Philadelphia College of Pharmacy, is dead. We have also to record the death of Dr. Presslie, a well-known Aberdeen pharmacist (p. 660).

THERE are several letters in reference to the new development of company pharmacy in Ireland, including one from Mr. Hayes in defence of his own consistency on p. 677, and some comments on the subject on p. 655.

THE Somerset House chemists report that a sample of lime-cream and glycerine submitted to them by the Brentford magistrates contained $\frac{1}{2}$ dr. of glycerine in the 8-oz. bottle. Mr. Bevan, the Middlesex analyst, had certified that it contained no glycerine. The case affected is adjourned for further investigation (p. 658).

MR. GASCOYNE, of Nottingham, deals with the proposed by-laws in a forcible letter (p. 676), in which he shows that the members of the Pharmaceutical Society not only do not pay a penny towards protecting the trade, but do not even pay anything like the cost of maintaining their own Society. Other letters on the same subject are printed. We also report some curious statements by Mr. Park, member of the Pharmaceutical Council, and a discussion on the by-laws in Aberdeen on p. 657.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Prepared Foods for Infants.

An adjourned inquest was held at Wigginton, near York, on April 14, by Mr. J. R. Wood, upon the body of a four months and a day old daughter of a bricklayer. Mr. James William Lofthouse, wholesale druggist, of Hull, gave evidence as to the prepared food on which alone the child had been fed. He said it was made by his firm, Messrs. Lofthouse & Saltmer, and it consisted largely of wheaten flour and also of malt. The deceased child should not have been fed on the food mixed with water alone. If it had been mixed with milk and given in small proportions, it would have been a suitable food. The Coroner expressed the opinion that the directions printed on the label of the tin were misleading to an ignorant person. The witness replied that precise directions for all circumstances could not be given. Mothers were expected to use common sense. Much depended on the child's constitution. He considered it impossible to give on the label specific directions for every child. He would alter the directions if the coroner wished him to do so. The Coroner, in summing up, said he thought the directions ought to be altered in such a way as to make it quite clear that the food was not suitable for infants of such tender years. The jury returned a verdict that the child died through improper feeding, and expressed the opinion that it had been shockingly neglected by the mother.

Mr. E. A. Carttar, held an inquest at Rotherhithe on Monday concerning the death of the twelve-days-old son of a missionary named Hamilton, residing at 112 Rotherhithe Street, Rotherhithe. The father said he last saw the child alive on the evening of Sunday week, and the following morning was informed of its death. Two days prior he bought some Ridge's food and the child was given a small teaspoonful. It also had Nestlé's milk. Lucy Webb, of 63 Adam Street, Rotherhithe, said she nursed the mother. The child had Ridge's food two days before its death. She had never known such young children have such food. Deceased became unwell on Saturday week, and was seen by a doctor, who ordered the food to be stopped, and nothing but diluted cow's milk given. During the night the child seemed quiet, but died in the morning. Dr. Vallange, who made a *post-mortem* examination, said he found a number of small pellets in the stomach, which on being crushed he found to be formed of a white powder. Death was due to convulsions, resulting from indigestion which had been caused by injudicious feeding. In answer to the Coroner witness said that such food as Ridge's should not be given to so young a child. Cow's milk diluted with twice the quantity of water was all that such infants should be fed on. The Coroner said it ought to be known that young children were quite unable to assimilate such food. The jury returned a verdict in accordance with the medical evidence.

Chemists Sub-postmasters.

The meeting of sub-postmasters which we briefly referred to last week was duly held at Wakefield on Easter Monday. About eighty persons were present. Among the chemists in the company were Mr. Meadowcroft, of Bury, Mr. Cussons, of Ossett, and Councillor W. K. Inglis, of Delph. Resolutions were passed forming a National Federation of Sub-postmasters, and deploring the failure of Lord Tweedmouth's committee to deal with the evidence placed before them on behalf of sub-postmasters, and declaring a determination to use every rightful effort to bring about a remedy. The second and principal resolution was moved by Mr. Cussons, Ossett, who was subsequently elected Hon. Secretary of the

new-born Federation. Chemists who are sub-postmasters, and who sympathise with the movement, are requested to communicate with him.

The Results of Packet Tea.

The Horniman Free Museum, which was dedicated to the free use of the public in 1890, occupies a commanding position in Forest Hill, and contains curiosities collected by Mr. Frederick John Horniman, M.P., during the past forty years from all parts of the world. The exhibits include Cyprian and other pottery, treasures from the Holy Land, mummies from the tombs of Egypt, Oriental manufactures and artistic productions, and natural history and zoological curiosities. Two years ago a park and a recreation-ground at the rear of the museum were thrown open to the public, and on Good Friday Mr. Horniman presented an additional eight acres to the neighbourhood. The opening ceremony took place on the upper lawn, known as Surrey Mount, from which an extensive view of the surrounding country can be obtained. In the course of his address to a large crowd of visitors Mr. Horniman emphasised the advantages of open spaces to the public, and expressed the pleasure it gave him to know that the inhabitants of that neighbourhood had derived much benefit from the free use of the museum and grounds. The exhibits, he added, were contained in premises once used as a dwelling-house, but in celebration of the sixtieth year of her Majesty's reign he proposed to erect a new museum which would be of lasting benefit to the inhabitants of South London. Mrs. Horniman then declared the grounds and pleasure-gardens open. During the day music was provided by a band, and at dusk there was a display of fireworks. The present museum contains twenty-four saloons of exhibits. The proposed new building is to be much more commodious.

More Harrogate Salts.

Spite of its dozens of wells in many of which sulphur abounds, Harrogate thinks of tapping a new well $2\frac{1}{2}$ miles south-west of the town, and belonging to Dr. and Mrs. Richardson. The Corporation have asked the Local Government Board to allow them to borrow 3,150*l.* for the purpose, and at a recent inquiry by a L.G.B. representative Mr. J. H. Wilson, pharmaceutical chemist, the Mayor, explained that the mild sulphur water of the spring was most valuable. The yield of the spring would be 1,100 or 1,200 gallons per day. Mr. Hayton Davis, pharmaceutical chemist and borough analyst, stated that the water was unique, and was just what was required for Harrogate.

Diphtheria Antitoxin.

The laboratory of the Royal Colleges of Physicians and Surgeons has since December 4 supplied 3,001 doses of antitoxic serum containing 4,000 units each, 125 doses containing 3,000 units each, 350 doses containing 2,000 units each, 300 doses containing 1,500 units each, and 499 doses containing 1,000 units, for the treatment of diphtheria in the hospitals of the Metropolitan Asylums Board, and all the demands have been fully met. During this period 14,028,000 units have been supplied, against 10,074,000 units last quarter.

Bradford and District Chemists' Association.

The members of this Association and their wives and friends had an enjoyable evening on the occasion of their annual conversation, which was held at the Great Northern Victoria Hotel on Wednesday, April 7. Mr. E. Mackay, President of the Association, was in the chair. During the evening some interesting exhibits were shown, including Röntgen rays, by Messrs. Reynolds & Branson, of Leeds; soap-bubbles, by Mr. J. E. Wilson, of Bradford; and electric clocks, by Mr. T. H. Pattinson. Musical selections were contributed by Mr. and Mrs. J. A. Mitchell, Mr. and Mrs. J. Moulson, and Miss Mackay.

Midland Pharmaceutical Association.

The last scientific meeting of the session was held at Mason College on April 13—Mr. F. J. Gibson, Wolverhampton (President), in the chair—when Mr. F. W. Howell, F.R.G.S., delivered a lecture on "Iceland." Mr. Howell has visited Iceland on several occasions, under the auspices of the Geographical Society. In the course of his lecture he described the glacial and chemical phenomena of the island,

and gave a great deal of information of a more popular character. His remarks were illustrated by lantern-views, shown by Mr. E. Shilton. On the motion of the President, seconded by Mr. Gibbs, Mr. Howell was thanked.

The Chemist and the Debt-collector.

Mr. Frederick Bonnett, chemist, of 111 Newington Green Road, Islington, was one of the prosecutors of John Oliver, a debt-collector, at North London Police Court on Wednesday. Oliver was charged with obtaining money by false representations, and Mr. Bonnett said that he employed him to collect a debt of 6*l.*, and gave him 10*s.* for the initial proceedings in the County Court. This was in April, 1896; and, as he heard no more of Oliver until August, he wrote asking what had been done in the matter. The reply was that the case was heard in July, and judgment obtained, and requesting the payment of 1*l.* 7*s.* as additional expenses. The Magistrate: Did you get your 6*l.*? Mr. Bonnett: No. The prisoner subsequently called upon me and said his clerk had absconded with the money. Altogether he paid 3*l.* 4*s.* to the prisoner, and asked for a return of this sum when he failed to get his 6*l.* In October the prisoner paid him another visit, and presented a bill for 5*l.*, which he said was backed by a responsible man, and would be met when due, as the man was an owner of house property. He gave the prisoner 2*l.* (the difference between the 3*l.* owing and the supposed value of the bill), but when the bill came due it was returned to him dishonoured, and when he wrote to the address of the man who had backed the bill the letter was returned through the Dead-letter Office. In cross-examination Mr. Bonnett said he advanced the money to the prisoner because he believed he was dealing with an honourable man. He charged the prisoner now with obtaining money by false pretences because he said the money was for court-fees, which he had not paid. The two items of 1*l.* 7*s.* he understood to be 14*s.* court-fees, and 13*s.* commission. If the bill had been met of course he could not have appeared against the prisoner, as he would have got his money back. The prisoner was remanded.

Benevolent Fund.

The following are additional subscriptions to the Manchester special contribution:—

	£	s.	d.
Atherton, J. H.	0	5	0
Dawson, F. R.	0	5	0
Handford, T. E.	0	10	6
Johnson, Thos.	0	5	0
Kellett, R. E.	0	5	0
Phillips, Jonathan	1	0	0
Pritchards (Limited)	1	1	0
Sewelson, D.	0	10	6
Thorpe, E. F. W.	0	5	0
Winstanley & Fairhurst	0	5	0
Worsley, Wm.	0	2	6
Amount previously announced	102	17	6
Total to Wednesday night	£107	12	0

A concert in aid of the Benevolent Fund has been organised, and will be given in the Gentlemen's Concert Hall, Manchester, on Wednesday, May 5. The performers will include a number of popular artists. Tickets, 2*s.* 6*d.* and 1*s.* each.

The Liverpool Pharmaceutical Students' Society held their closing smoking-concert of the session on April 14. Mr. J. Jones (President) was in the chair, and the performance was considered one of the best the Society has ever enjoyed. During the evening a collection was taken up on behalf of the Benevolent Fund, and 2*l.* 5*s.* 4*d.* was realised.

The Sale of Arsenic.

An ironworker named New (47) poisoned himself at Bilston with arsenic on Sunday. At the inquest, on Tuesday, Mr. John Burton Shelly, chemist, Church Street, said deceased went to his shop on Saturday evening last, and asked for some vermin-killer. He specified arsenic, and witness refused to supply him, because New had no witness except his son, aged 14 years. Deceased went away, but returned in about an hour with a man named George May, and asked for threepennyworth of arsenic. Witness supplied

him with 1½ oz., and both deceased and May signed the register. There was nothing strange in New's manner, but he seemed very pressing to obtain the poison, because he said he was "overrun with rats." Witness labelled the packet with a red label and a black one, one being "Poison" and the other "Arsenic—Poison."

A Novel Carbolic-acid Death.

George Rogers, a painter, was working at St. Bartholomew's Hospital last Tuesday, and was very drunk. His mates sat him in a chair, but he slipped off, and in falling he knocked over a large jar containing carbolic acid. When found he was lying face downwards in a pool of the acid, his face, neck, and chest being badly charred.

The Charge Against a Chemist's Assistant.

Conway, the chemist's assistant charged with misappropriating moneys belonging to his employers, Messrs. Boots (Limited), was to have appeared on remand at the Bedford Police Court on Tuesday last, but upon the case being called it was stated that he was still too ill to allow of his being removed from his bed. A further remand for another week was ordered.

Soothing-powder Samples.

At an inquest held at Alfreton, on April 17, on a 6 months' old child, who had died in a convulsive fit, it was stated that on the previous night the mother had given the child a soothing-powder, which had been left as a sample at her mother's house. One was left at her house also, and she had given that to the child, and it seemed to do her good. The doctor, who was shown one of these sample-powders, said it seemed to be composed of compound aromatic chalk-powder. It might also contain antimony. The Coroner said the label bore the name of a Leicester chemist, Mr. Robinson. The inquest was adjourned for three weeks, to allow of a *post-mortem* examination.

Antiseptic Dressings.

At last week's meeting of the Midland Chemists' Assistants' Association Mr. Frank Casson read a paper on this subject. Having explained the antiseptic treatment and the antiseptics which are used, he described a few forms of preparing various dressings, and how these are made sterile. Modern surgical methods were also dealt with in general terms.

Drunk on Paraffin Oil.

On April 17, at the West Riding Police Court, Barnsley, Frederick James Lea, chemist's assistant, recently employed at Penistone, was charged with having been drunk at Penistone. He was found by the police close upon midnight on the 15th drunk, and in a dazed condition, and at the station declared he had drunk a quantity of paraffin oil. Finding such was the case, the officers caused strong hot coffee to be administered. After a time the man came round. Inquiries revealed the fact that defendant had been discharged from his situation. He had been indulging freely in drink for a week, and when he had spent his money he went to his lodgings, emptied a paraffin lamp, and drank the oil—it is said over a pint of the nasty stuff. Before he committed this act he is said to have signed the pledge, and had been sober for a short time. The Bench, taking a lenient view of the case, only fined him 2*s.* 6*d.* and costs.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Pharmaceutical Society's Examinations.

At a Registered Druggist examination held at Queen's College, Belfast, on Tuesday, April 13, the following passed:—Messrs. M. Birt, A. T. Bright, A. M. Dougan, G. Hamilton, R. Herron, J. Macauley, T. C. McBride.

At the Pharmaceutical Licence examinations the following passed:—Messrs. J. A. Ray, jun., J. McFadzean, J. Deans, W. J. Adamson and S. Hogg (equal), W. Jones, W. J. McLoughlin. Ten candidates have been rejected.

The Cooks and the Broth.

The Local Government Board does not approve of a double dispensership. They have written to the Cork Board of Guardians with reference to the conjoint discharge of the duties of apothecary to the Union by Drs. O'Brien and Murphy, *vice* Dr. Allsom, L.P.S.I., resigned. The Local Government Board consider the arrangement unsatisfactory. Duties conjointly discharged are not so efficiently done as when there is individual responsibility. The Guardians are requested to appoint one officer.

Prescribing by the L.G.B.

Dr. McKenna, medical officer to the Ballylinan dispensary district, recently ordered certain articles for the use of the dispensary, and the question of their necessity came before the L.G.B. That department decided that a reasonable quantity of boracic-acid ointment may be used, and boracic acid itself for the throat and mouth. As to plasters, the medical officer must confine himself to the preparations authorised by the British Pharmacopœia. Ointment of ichthylol may be supplied, as may also sulphonal and paraffinum molle. Some of the preparations asked for are costly, and care should be taken that they are not charged for at more than current wholesale prices. Finally, the medical officer is enjoined to order only a three months' supply of medicines at one time.

Not to be Caught.

Messrs. P. A. Leslie & Co., drug contractors to the Mountmellick Board of Guardians, have been called upon for explanation of their failure to supply 2 pints of spirit of wine to the order of the dispensary officer to the Union. Messrs. Leslie reply that in not sending the article they acted for the protection of themselves and the Board. If they had sent less than 2 gallons of the article they would have rendered themselves and the Guardians liable to a fine of 50% or 100%. The explanation was considered satisfactory.

A Chemist's Lecture.

Last week at Londonderry a public lecture was announced to be given in the City Hall by "Professor" Shepherd, chemist and druggist, Waterside, on the following subjects:—Microbes; insanity and drunkenness—cause and cure; the financial relations; great Irishmen; the Derry Corporation; love, war, courtship, and marriage, and how to select a wife; how to get drunk on a penny, &c. The "professor" was escorted to the City Hall by a motley crowd of some hundreds, with a band comprising drums, flutes, tin-whistles, shells, and melodeons. The "lecture" was a rambling discourse shouted out at intervals above the din. The platform was invaded by the audience, and a free fight preceded the calling in of the police. The "professor" got home under the protection of half-a-dozen constables. The City Hall was partially wrecked.

Company-pharmacy.

Messrs. Hayes, Conyngham & Robinson have decided to reopen the pharmacy at Elsin House, Balls Bridge, lately surrendered by Mr. Cosbie, L.P.S.I. The company are also about to open a branch pharmacy at Fairview. The debenture shares offered to the public have been subscribed for three times over.

It is rumoured that a well-known English drug company is about to open a number of branches in Ireland, and it is stated that negotiations are now proceeding for the purchase of a well-known Dublin pharmacy.

Drinking Laudanum in a Chemist's Shop.

At the Dublin City Commission last week John Brown Smyth, who described himself as a chemist, lately come from Chicago, was indicted for an attempt to commit suicide by drinking a quantity of laudanum in Mr. O'Connell's pharmacy, Amiens Street, Dublin. Mr. Maurice J. O'Connell, L.P.S.I., deposed that the accused came into the shop and was served with 1 oz. of laudanum, which he proceeded to

drink. Witness seized his hand, but he succeeded in swallowing about one-third of the ounce. The prisoner said he was accustomed to the use of opium, and the jury found him not guilty.

Reporting on Drug-tenders.

The Mitchelstown Guardians considered their drug-contracts last Saturday. The tenders had been submitted to the three medical officers of the Union for report. These gentlemen came to the conclusion that there was little difference in the quotations of the Cork Chemical and Drug Company, the Apothecaries' Hall, and others, but there were two cheaper tenders. The Cork Chemical and Drug Company had been medicine-contractors to the Union for a considerable period, and had given the greatest satisfaction. In the course of some discussion, it was mentioned that one of the cheaper competitors offered cod-liver oil at 1s. per gallon and castor oil at 3s. per quart, but the Guardians and the doctors all seemed to understand the trick, and it was resolved to place the contract again with the Cork Chemical and Drug Company.

A Check on the Contractors.

The Guardians of the Lismore Union have passed a resolution requiring the drug and medicine contractor to sign an agreement to supply at wholesale price any articles required outside the contract-list, the price to be determined by the price-list of Messrs. Richardson, of Leicester. In the examination of the tenders for drugs, &c., most likely to be used it appeared that the tender of Messrs. Leslie & Co., Dublin, was the lowest, and that of Dr. Holland, the Medical Hall, Dungarvan, the next lowest, the difference being only 1s. 10s. Mr. O'Gorman based his resolution to give the contract to Dr. Holland on the ground that it was not always prudent to accept the lowest tender in a medicine-contract, and that Dr. Holland was the local man. This was objected to on the ground that if the lowest tender was not accepted it would destroy all competition, and it would be useless to invite tenders for anything in future. After some discussion the tender of Messrs. Leslie & Co. was accepted.

The Local Contractor.

The medicine-contract in the Mullingar Union occasioned some discussion among the Guardians. Tenders were received from the Apothecaries' Hall, Dublin; Messrs. P. White, Sligo; Boileau & Boyd, Dublin; J. Clarke & Co., Belfast; Thacker & Hoffe, Dublin; Boyers, Sligo; Mrs. English, Mullingar; and the Cork Chemical and Drug Company, Cork. The committee reported on the prices of fifty selected articles, and Messrs. White's tender was the lowest. It was proposed that Mrs. English's tender be accepted. She was fourth on the list, and a large ratepayer. An amendment was moved that the contract be given to Mr. White, as his was the lowest tender. Mr. Levinge, who moved the amendment, said if Mr. White tendered for some articles at below their cost they had no reason to doubt his honesty. He might get it on something else. Of course it was a bit of dodgery, but so long as he sends the proper article to the Guardians it is nothing what he gives for it. They should take care that he gives the genuine article, and that he has solvent sureties for the due performance of his contract. Ultimately, nine Guardians voted for Mrs. English and three for Mr. White.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

The New By-laws.

At the annual meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association, to be held on Friday evening, April 23, the proposed new by-laws of the Pharmaceutical Society will come up for discussion. Mr.

George Coull will introduce the matter. The meeting will be held at 36 York Place at 9.15 P.M.

The Forfarshire Association.

The first meeting of the Forfarshire District Chemists' Association is to be held at the Queen's Hotel, Nethergate, Dundee, on Wednesday, April 28, at 4 P.M., when the proposed constitution and rules will be discussed and adopted, and office-bearers elected. Dinner will follow at 5.30, and if there is any time to spare between, the proposed Pharmaceutical Society by-laws will be discussed. The constitution and rules of the new Association provide for the election of a president, vice-presidents, secretary, treasurer, and twelve members of committee. All registered chemists, whether employers or assistants, are eligible for membership, the annual subscription being 2s. 6d. It is proposed to hold meetings quarterly, or oftener if desired, the annual one being in April. We are pleased to note that the promoters of the Association have abbreviated the title, which will make no difference to its long life. Those who wish to attend the dinner should write to Mr. James Russell, 111 Nethergate, Dundee.

Two LL.D.'s.

The degree of LL.D. was conferred upon Professor James Dewar, President of the Chemical Society, at the recent graduation ceremonial of the Edinburgh University. Professor Sir Ludovic Grant, in conferring the degree, said that the University recalled with pride that the distinguished physicist and experimentalist received his earliest training in science and first impulse towards research in the University. His investigations had been productive of most remarkable results, and constituted his chief claim to academic recognition. He mentioned, in particular, Professor Dewar's discoveries regarding the liquefaction of gases and the properties of matter at low temperatures. In many instances the experiments demanded the highest courage, no less than perseverance and skill. A similar degree was conferred upon Dr. John Wylie, a leading Edinburgh practitioner.

Chemists at Golf.

The Edinburgh District Chemists' Golf Club held their Spring competition at Gullane on Monday, April 19 (the Edinburgh Spring holiday). The "Gibson Challenge Medal," Captain's, and two Club prizes were played for during the forenoon, with the following results:—First, Captain's prize and holder of Gibson medal, H. D. Alexander, who returned the fine score of 92, scratch; second, J. G. Anderson, 105 less 4 = 101; third, John Robertson, 110 less 6 = 104. Mr. George Lunan, the Captain, really came in second with the score of 105 less 5 = 100, but declined a prize. In the afternoon Jas. Stott won the first sweepstake, John Robertson second, and Geo. Robertson third. Sixteen members turned out.

French News.

(From our Paris Correspondent.)

OLD PHARMACY GLASS AND POTTERY.—M. Dorveaux, the librarian of the Paris Superior School of Pharmacy, is preparing a dictionary of inscriptions on old pharmacy ware. He will be obliged to any pharmacist who will send him a copy of the inscriptions on any old pots, &c., they may possess.

CENTRAL PHARMACY OF THE HOSPITALS.—The new director of the Central Pharmacy of the Paris hospitals, who replaces Dr. Bourgoïn, recently deceased, is Dr. Prunier. The new director is chief pharmacist of the Maternity Hospital, Paris, Professor of Chemical Pharmacy at the School of Pharmacy, member of the Society of Pharmacy, and the Academy of Medicine.

MEDICAL NIGHT-SERVICE.—At the last meeting of the Paris Municipal Council a credit of 30,490f. (say 1,220l.) asked for by the Prefecture of Police for defraying the expenses of the new medical and pharmacy night-service was voted. After some discussion as to which department of the City administration this service belongs to, it was decided

that it is a work of "public security," and as such should be under the control of the police authorities.

THE THERAPEUTIC PROPERTIES OF SALICYLATE OF SODIUM.—A pharmacien of Vierzon, M. Routhier, has written to the Paris Academy of Medicine to say that he has just terminated a series of interesting researches and experiments in connection with salicylate of sodium, the result of which he submits to the Academy in a lengthy paper. His studies, he says, are the result of ten years' scrupulous and patient work. According to M. Routhier, salicylate of sodium is a cure for headache, a regulator of the digestion, and has tonic virtues. These experiments are being checked before the Academy expresses approval regarding them.

EXPLOSION WHILE MAKING OZONE.—M. Blachier des Taillades, a chemist connected with a well-known establishment in Paris, was engaged the other day in making ozone in a private laboratory, when suddenly an explosion took place, blowing the furnace and various other apparatus into atoms. M. Taillades had his left hand seriously hurt, and his son, aged 12, had an eye slightly burnt by sulphuric acid. M. Taillades states he was making a double experiment. On the one hand, he sought to produce ozone by electrolysis, and, on the other, to obtain the same gas by the action of sulphuric acid on permanganate of potash. The hydrogen obtained by one experiment may have formed an explosive gas with the oxygen produced by the other, or, under the influence of heat, the hydrogen may have taken fire. M. Taillades was an accomplished violinist, and was about to give up chemistry for the practice of that art.

MOLIÈRE AND THE DOCTORS.—Dr. H. Folet, honorary doyen of the Faculty of Medicine and Pharmacy at Lille, gave an interesting lecture at Valenciennes last week on "Molière and the Doctors of his Time." The lecturer held that the most comically exaggerated epigrams of the great dramatist rest on a basis of solid fact. The "Cérémonie" in the "Malade Imaginaire" was but a clever and sufficiently exact caricature of the reception of a doctor by the Faculty. From the text of contemporary medical works he showed that Purgin and Diafoirus were no mere creatures of Molière's imagination; their prescriptions bear much resemblance to those of Fernel, Fagon, Guy Patin, &c. The reference made by Molière to the use of purgatives may seem to us incredible, but authentic documents prove that Louis XIV. took 2,000 such doses in the space of fifty-nine years (nowadays this would be considered moderate by many people), while his predecessor (Louis XIII.) was ordered 215 "medicines" and 47 blood-lettings in the space of twelve months. Molière's great error, Dr. Folet thinks, was to believe that the doctors of his age were wanting in sincerity. Their writings testify an absolute conviction, which, remarked the lecturer, "is their only excuse."

HAWKERS AND MEDICINES.—At the fair now being held in the Vaugirard quarter of Paris, a street hawker was selling a yellow powder which he guaranteed would cause the person taking it to make a grimace. He then put a little of the powder in a glass with water, and asked someone to be kind enough to step forward and "oblige the company" by drinking it. Desire for a bubble reputation tempted a 15-year-old boy to drink the concoction. No grimace followed, and the hero of the moment challenged the hawker "to try again." He swallowed the contents of a second glass and a moment later was writhing on the ground in intense pain. The hawker promptly decamped, leaving his stock behind. The youth was taken to a hospital, where he is progressing satisfactorily. The grimace-powder has been sent to the municipal laboratory to be analysed. The same evening the police arrested another man who was selling a powder, this time for making the peculiar concoction which readers of "Trilby" will recognise as "Coco." This hawker declared that his merchandise was powdered aloes bought from a druggist in the rue des Lombards. This brought him within the far-reaching arm of the pharmacy law, and he will be prosecuted for selling pharmaceutical products on the public thoroughfare without a diploma.

"BALL-BANGS-BELCHER-BLITZ-BLITZ-BLITZ," and so on. This is not profanity; only an alphabetical abstract from the Dentists' Register of Victoria.

The Speciality Question in France.

By OUR PARIS CORRESPONDENT.

FRENCH pharmacists are still seeking a settlement of the speciality question. It may also be added that the leaders of the movement both in the North and South follow with keen interest the various phases of the same subject in England. Medical men now seem inclined to come into the field, and were it not that the various negotiations are carried on with a slow deliberation the French manufacturers of pharmaceutical specialities might find themselves between the hammer and the anvil. From a personal acquaintance extending over many years with a number of the leading French makers of patent medicines, I am able to say that they include some of the best business men in France in their ranks, and I have not the slightest doubt that they will be quite able to protect their interests, especially as they are able to obtain considerable influence in the Chamber of Deputies and Senate, which will prevent any measures detrimental to their interests from being introduced into the new pharmacy law. It is the *Reveil Médical* that takes up the question of pharmaceutical specialities in their relation to the practice of medicine. In an article headed "La Guerre aux Abus" ("War to Abuses") it says, in speaking of the depression supposed to exist in the medical profession: "With culpable negligence we have allowed certain persons (i.e., manufacturers of specialities) to encroach upon our domain. It was our business to take action from the first and to avoid this invasion by legal means. We had right on our side, and the enemy, now redoubtable, might easily have been overcome. In our opinion the principal cause of the crisis amongst doctors is the speciality. Those universal panaceas are the enemy—an enemy which has almost caused the ruin of pharmacy, and may be fatal to medicine itself if care is not taken. The pharmacist has met the difficulty by turning maker of patent medicines himself, and assists in bombarding the doctors with bottles and boxes in smart wrappers." A good deal more is said in the same strain and on the ever-quoted law of 21 Germinal, Year XI., which is apparently so delightfully comprehensive that it can be either used for or against pharmacists with equal effect. The *Reveil Médical* considers that to put everything in its place (from the medical point of view) will be a very simple thing, and it announces that a syndicate has been formed for the purpose of providing the necessary funds for taking legal steps against those speciality houses who "daily practise medicine illegally." If the matter is taken up energetically the pharmacists here will undoubtedly follow it with interest. The first step, however, that the doctors will have to take is to commence a crusade amongst themselves against those members of their profession who make a habit of prescribing certain pharmaceutical specialities, on the sale of which articles, if rumour is true, they are paid a liberal commission. M. Henri Fortuné, President of the Federation of Pharmacists of the South-East of France, recently said, "In the difficulties which beset them both doctors and pharmacists have the greatest interest to unite their forces instead of engaging in a controversy amongst themselves. They ought to combine together against patent medicines, as only when these disappear can medicines proper return to the doctors and pharmacy to the pharmacists. In the present state of things the major part of the profits goes to the manufacturers of specialities, who content themselves with making a few presents to the doctors and by assuring us that they are desirous of making any arrangement profitable to their interests."

At the annual meeting of the General Association of French Pharmacists, to be held at the Paris School of Pharmacy on April 22, M. Collard, of Marseilles, will again bring forward his proposal for the total suppression of patent medicines in France. There is no hurry on the part of the manufacturers of patent medicines to settle this much-debated speciality question. However, the General Association has been led to understand that as soon as the adhesion of 5,000 pharmacists to the anti-cutting scheme can be promised, the makers' syndicate will be disposed to accept the anti-cutting scheme. On the day following the meeting of the General Association a congress will be held at the Paris School of Pharmacy for further discussing the subject of pharmaceutical specialities

(or their total suppression). This meeting is interesting because it is one of provincial pharmacists to be held in Paris to discuss a question to which the Parisians are opposed. The idea of the congress is due to M. Collard, who has shown exceptional zeal and energy in connection with the speciality question; but as he wants to be too drastic in his measures the Paris pharmacists decline to take part in the congress.

Colonial and Foreign News.

CASTORIA TRADE-MARK.—Pitcher's castoria, the composition of which was patented by Samuel Pitcher in U.S.A. in 1868, has been declared by the United States Court at Minneapolis, public property, and also the trade-mark secured by Miss Cora F. Bornes, in 1883, as invalid. The owners of castoria, which is very popular in the United States, have appealed against the decision.

NEW YORK PHARMACISTS are in trouble because it has been proposed to hand over the entire control of the Board of Pharmacy of greater New York into the hands of the College of Pharmacy there. To defeat this a Bill has been introduced into the Senate abolishing all existing boards in the State, and establishing a State Board, with representatives from New York and King's and Erie Counties. The Bill is practically an extension of the existing State Pharmacy Act so as to cover the counties now exempted from its provisions.

A GERMAN DRUGGISTS' JUBILEE.—The wholesale drug-firm of Louis Duvernoy, of Stuttgart, celebrated their seventy-seventh anniversary on April 3. On that day the present and a large number of the past employes of the house dined together, to the number of 300, in a room decorated with a laurel-crowned bust of the founder of the house. The festivities were kept up all through the following day, and a large number of congratulatory telegrams, including messages from old employes at Cape Town, Shanghai, and Manila, testified to the popularity of the proprietors of the firm.

BEE'S VENOM AS A REMEDY.—A novel undertaking in the manufacture of drugs has been begun by two young Pennsylvanians, who have commenced the extraction of the poison from honey-bees. They have two different ways of collecting their crop of venom. In the first, the bees are caught and held with the abdomen in a small glass tube until the poison sacs have been emptied. In the second, they are placed in a bottle on wire netting, and enraged until the tiny drops of venom fall into the alcohol which fills part of the bottle. This venom is said to be a remedy for cancer, rheumatism, snake-bite, and a hundred other ills of humanity.

A FACTORY FOR IMITATIONS.—The Antikamnia Company of St. Louis have been the means of shutting up a factory in Chicago for the production of spurious antikamnia. When the principal operator (an engineer, brother-in-law to a pharmacist also in the concern) was caught, he was operating an electric machine which was turning out tablets at the rate of seventy-two per minute, each perfectly marked with the antikamnia trade-mark. Upon examination the tablets were found to consist mostly of French chalk. The machine and goods were taken away. The machine particularly interests us, as we have not heard of compressed tablets being made by electricity before.

PHARMACEUTICAL JOURNALISM IN EASTERN EUROPE.—Two new pharmaceutical journals have recently been established. One is published in the Roumanian language at Bucharest, under the title of *Buletin Farmaceutic*, and the other at Agram in Austria. The last-named, which is called *Aesculap*, is published in the Croatian language, and is the property of a pharmaceutical society bearing the same name. Another fact of some interest as showing the growth of technical journalism is that the *Russian Pharmaceutical Journal*, which has hitherto appeared in small octavo size monthly, has more than doubled its size, and will in future contain matters of more general pharmaceutical interest. This is a satisfactory announcement, inasmuch as up to the present matters relating to Russian pharmacy and the chemical industry generally have been much neglected in the press.

A NICE APPRENTICE.—Chemist's Apprentice Schulte, of Lippstadt in Germany, has just been sentenced to the not unreasonably long term of fifteen months' imprisonment. It came about this way:—Apprentice Schulte was one of the idle kind, and his master reproved him. Whereupon Apprentice Schulte cast off all veneer of civilisation, and the primitive vices reasserted their sway over him. Grabbing several handfuls of strychnine (the police, with official punctilio, assess it at 69 oz.) he mixed a good flavouring of that poison with the contents of the shop-bottles, threatened to murder the manager (who detected him in the act), ran to the back of the house and set it on fire, all but brained the apotheker, his master, and the frau apotheker, with a big iron key, and then swallowed two mouthfuls of different poisons, which acted as mutual antidotes. What Apprentice Schulte may do to his fellow-men when he is let loose again we can only conjecture. "Physical-force Anarchy" would seem to be a promising career for him.

CHINESE ALBUMEN.—The U.S. Consul at Chin-Kiang has written an interesting report on the manufacture of dried egg-albumen there by a German firm. The district is a poultry one, and ducks' eggs are available in any quantity at a low figure. Chinese girls break the eggs and separate the white from the yolks; the white is then strained and run into vats, where some unknown chemicals are added to promote "fermentation," or (we judge) to clarify the albumen. When this is complete the albumen is run into tins 1 foot square, and scaled in drying-rooms at a temperature between 40° and 50° C. When dry the albumen is packed in square tin-lined boxes, holding about 4 cwt. The yolk, after straining, is churned with a sufficiency of 10-per-cent. solution of salt, borax, and an unknown chemical until it assumes the consistency of thick molasses, and is then forced through a funnel into a cask holding about 5 cwt. This is used in the preparation and dressing of superior leather goods, and is in much demand in England, Germany, and France.

INTERCOLONIAL PHARMACEUTICAL RECIPROCITY.—An interchange of letters has taken place between the Pharmaceutical Societies of Queensland and Western Australia regarding the recognition of colonial diplomas by the Pharmaceutical Society of Great Britain. The Queensland Society has asked the Victorian Board to again act on behalf of the other colonies in approaching Bloomsbury with a definite proposal for reciprocity, and the Pharmacy Boards and Pharmaccutical Societies of the different colonies have been asked to second this proposal. The Westralians reply sympathetically, but they consider that intercolonial reciprocity should be established before they approach the mother country. "Chemists should be the first to establish federation—one qualification, one standard examination, carried out by the various pharmaceutical councils or boards" is what colonial pharmacists should aim at, added the Registrar of the West Australian Society in his letter, which was approved at the annual meeting held on March 17. At the same meeting Mr. E. W. Mayhew was re-elected President, and Mr. Alfred E. Webster Secretary and Registrar.

QUEBEC EXAMINATIONS.—The Pharmaceutical Association of Quebec have even a worse experience than the British Society with their Preliminary candidates. At this month's examination only ten out of thirty-six candidates passed. Two candidates passed in all subjects but one, and are to be permitted to try the odd subject in July. The closing sessional examinations at the Montreal College of Pharmacy were also held this month, and the following are the names of the successful candidates in their order of merit:—Botany—Miss A. A. Prevost (prize), E. H. Lawson, Norman Holden, James Franckum, F. J. Lemaistre. Junior Materia Medica—Geo. H. Voss (prize), R. H. D. Benn, F. W. Horner, Norman Holden, F. J. Lemaistre, O. H. Tansey, Alf. Jas. Bedard, L. G. B. Browne, C. F. Covernton, Allan T. Christie, H. W. Patterson. Senior Materia Medica—Henri St. Georges (prize), A. E. Clement, J. G. A. Filion, Louis Fortin, V. F. Forgnès, Henri Gènerux, Arthur Arcand. Junior Chemistry—Gustave Richard (prize), Hercules Guerin, J. A. Goyar, Henri St. Georges, Louis Fortin, Miss A. A. Prevost, J. N. Farley. Senior Chemistry—Geo. H. Voss (prize), W. F. Roach.

Pharmaceutical Society of Great Britain.

APRIL EXAMINATIONS.

THE following results have been communicated to us by the Registrar:—

BOARD OF EXAMINERS FOR ENGLAND AND WALES.

MAJOR EXAMINATION.

The number of candidates examined was 32, of whom 12 failed and the following 20 passed:—

Coupland, Henry Snart	Lloyd, Thomas Henry
Coverdale, Arthur Edward	Lumley, Harold
Drust, John Hubert	Mallaband, William Henry
Elkington, Charles John	Saunders, Alfred Woods
Goodall, Frederic Charles	Stearn, Ralph Marmaduke
Hopkins, John Sidney	Sutcliffe, Lot Bains
Hughes, William Griffiths	Thomas, James Douglas
Knowles, William Richard	Umney, Ernest Albert
Lee, Harry Lancelot	Walker, Albert Storrs
Lewis, Richard Rice	Woodward, Harrison

MINOR EXAMINATION.

The number of candidates examined was 235, of whom 160 failed and 75 passed, viz.:—

Anquetil, Charles Edouard	Lenfestey, Leopold d'E.
Arber, Alfred Preston	Lester, Wm. Hy. (Nuneaton)
Barlow, Thomas Oldham	Lloyd, Henry Bright
Barrett, Henry William	Lounds, William Beaver
Battle, Ernest Wm. Chatterton	Lowson, William
Bawcutt, Frank Frederick	Marsh, Ernest
Bowler, Ernest Harper	Marshall, Henry Herbert
Bromley, Albert William	Matson, Joseph
Brown, John Arthur	Mellor, William Gilbert
Burnett, John	Morgan, David King
Cassels, Thomas Henry	Morris, Henry
Chapman, Edgar Marsh	Neale, Denys William
Cole, Claude	Neale, John
Cooper, Herbert Edward	Nye, Gerald Launcelet
Dowdy, Sidney Ernest	Owen, Alfred
Durrant, George Stuart	Parker, Herbert Thomas
Dutton, Robert Thomas	Pearson, John Henry
Eustace, Robert George	Peck, John Wicliffe
Evans, Arthur Edward	Plant, Thomas
Foster, Charles Ekins	Price, Edward George
Gair, Emmeline Annie	Purnell, Austin
Gayton, Ethel	Rider, Ernest Alfred
Gittins, Samuel Ernest	Siminson, Albert Henry
Gwilliam, John Everall	Siviter, Wm. Oscar Bull
Hamer, Enoch Thomas	Skeat, Charles
Hampton, William Henry	Skeels, Arthur Edward
Hicks, Alexander Frankj	Skinner, Ernest Pape
Hooper, Joseph	Slater, Ernest Henry
Jeffery, George Golder	Snow, Leonard Hardy
Jeffs, Richard Thomas	Stearn, Sydney
Jones, Edward Rees	Thompson, Sidney Cooke
Jones, Richard Robinson	Tirrell, Arthur William
Jones, Stephen	Watson, Ralph Henri Louis
Kerruish, Thomas Maltby	Wysall, Edward Searson
King, Frank Herbert	Williams, Joseph Miles
Kissell, John Victor	Windemer, Oscar Roxburgh
Knight, Thomas	Woods, Benjamin Archibald
Knowles, John Thomas	

BOARD OF EXAMINEES FOR SCOTLAND.

MAJOR EXAMINATION.

Five candidates were examined, four failed, and Mr. David Smith Rattray, Aberdeen, passed

MINOR EXAMINATION.

The number of candidates examined was 180, of whom 129 failed and the following 51 passed:—

Ashdown, W. P. C., Edinburgh	Douglas, J. F. R., Edinburgh
Bain, James, Glasgow	Duncan, John, Aberdeen
Bell, H. R. K., Edinburgh	Duncan, Hubert, Glasgow
Bowell, H. J. W., Swansea	Emsley, Robert B., Liverpool
Bowman, A. N., Edinburgh	England, Herbert, Edinburgh
Chayne, W. A., Edinburgh	Forster, William, Edinburgh
Chrystall, Robert, Edinburgh	Fairbairn, J. H., Edinburgh
Cockshott, Fredk., Doncaster	Gilchrist, Adam, Edinburgh
Dannat, Philip, Edinburgh	Gee, James E., Edinburgh
Davies, D. A., Edinburgh	Gordon, David, Liverpool

Graham, Margaret T., Lochgelly
 Grayson, Joseph, Edinburgh
 Griffiths, Arthur V., Longton
 Guthrie, J. S., Edinburgh
 Heraughty, Thos., Edinburgh
 Hirst, F. B., Batley Carr
 Hodgson, John B., Clayton-le-Moors
 Hodgson, B. C., Edinburgh
 Holland, G. A., Edinburgh
 Innes, Wm. R., Edinburgh
 Jack, William, Edinburgh
 McBride, Alexander, Glasgow
 McLaren, Arthur, Glasgow
 Marshall, R. H., Bradford
 Maxwell, John, Edinburgh

Milne, Hamilton, Edinburgh
 Moss, George H., Chester
 Officer, Colin, Edinburgh
 Patterson, John, Edinburgh
 Piggitt, L. W., Manchester
 Pilgrim, W. E., Edinburgh
 Pilkington, J., jun., Manchester
 Reid, Alexander, Aberdeen
 Robertson, D. S., Edinburgh
 Robinson, C., Manchester
 Rollin, Arthur S., Durham
 Sharples, Robert, Blackburn
 Speedy, William, Edinburgh
 Spence, Thomas, Musselburgh
 Thomson, Charles, Leith
 Wade, Margaret C., Ladbroke

Personalities.

MR. J. H. FISHER, pharmaceutical chemist, Dunfermline, has been elected a bailie of that ancient and royal burgh.

MR. THOMAS MABEN, pharmaceutical chemist, Hawick, has been elected chairman of the Hawick Burgh School Board.

MR. EDWARD J. DOVE, who was mentioned in this column last week as the representative of the D.C.L. malt extract, figured, by error, as Mr. Edward J. Dane.

MR. WILLIAM CUMMING, chemist and druggist, Thurso, was at the last meeting of the St. Andrews Lodge of Odd-fellows presented by the Lodge with a Past Grand Master's jewel, as a token of respect, esteem, and goodwill.

DR. GEORGE KING, F.R.S., the Superintendent of the Royal Botanic Gardens, Calcutta, is not to retire from the Indian Medical Service until next year, this being the second occasion on which the Department has extended his service.

VALENTINE, "a chemist," is the leading character in Mr. G. Bernard Shaw's play, *You Never Can Tell*, which will shortly be produced at the Haymarket Theatre. Mr. Allan Aynesworth is cast for this part. The first act passes in Valentine's "operating room," which we presume to be Shawese for laboratory.

DR. P. C. PLUGGE, Professor of Pharmacology at the University of Groningen, Holland, is about to undertake a journey to Java for the purpose of making certain pharmacological investigations in the Buitenzorg Botanical Gardens. The Professor intends to devote special attention to research into the properties of Indian medicinal-plants, and to gather a supply of material for further investigations after his return to Holland. Professor Plugge was formerly engaged as a pharmacologist in the service of the Government of Japan.

MR. BEECHAM, the renowned pill maker of St. Helens, has added to his possessions in that busy town, says the *Morning Leader*, by the purchase of Lord Gerard's College Street estate, for nearly 20,000*l.* Mr. Beecham started life in St. Helens in a very small way, and now his manufactory is one of the sights of the town. The busy manufacturer is a firm believer in the uses of advertisement, and attributes much of his remarkable commercial success to his judicious methods in this direction. His phrase "worth a guinea a box" came to him from the stray purchaser of a box of pills, who formed a high opinion of their worth. He at once saw the value of it, and adopted it as the brand of his manufactory, with splendid results to his business and himself.

A LARGE WORKS for the preparation of oil for table and industrial use is to be erected at Fiume, in Austria, by the Anglo-Hungarian Oil Company, which consists principally of British capitalists.

THE following are verbatim extracts from note-books of students in economic botany which were submitted to a well-known lecturer as an indication of the progress of his class:—1. "Catechu is used in diarrhoea, likewise to open and clean throats." 2. "Absinthe. It has been proved that a man who uses this liqueur in a great abundance is able to loose his mind soon." 3. "Coffee is pupped (pulped) in a machine." 4. "Liberian coffee was thought that it would withstand the insect ravishes."

Proprietary Articles Trade Association.

THE LEGALITY OF ITS METHODS.—SIR EDWARD CLARKE'S OPINION.

THE following is a copy of the questions recently submitted to counsel to satisfy the Grocers' Federation in respect to the legality of the proceedings of the P.A.T.A., with counsel's answers:—

1. Would the Liebig Company, Bovril, Scott, Homocoea, and Beecham be liable to be indicted for conspiracy if they refuse to supply a particular man, who was cutting Gosnell's tooth-paste below 1*s.*, with all or any of their own articles, except at such prices as would prohibit his competing with the ordinary retailer?

The associated traders would not be liable to be indicted for conspiracy should they refuse to supply a particular man, who, for example, was cutting Gosnell's tooth-paste below 1*s.*, with any or all of their own articles except at such prices as would prohibit his competing with the ordinary retail dealer.

2. Would it affect the case when, in order to carry this arrangement out, they secured the co-operation of their wholesale agents, and prohibited them from supplying this man except at those prohibitive rates?

It would not render the action of the associated traders illegal if, in order to carry out the arrangement mentioned in Question 1, they were to secure the co-operation of their wholesale agents, and prevent them from supplying the dealer in question except at the prohibitive rates.

3. If it is an act of conspiracy for these manufacturers to enter into this combination and issue to the trade a circular signed conjointly, would they be within their legal rights in individually issuing such a circular? For instance, would Bovril be legally justified in saying, "If you retail our goods, or Homocoea, Cherry Blossom, or Liebig's extracts of meats below certain prices, we will charge you higher rates than we usually charge the trade": and could the Homocoea Company issue an individual circular laying down the same stipulations with regard to their articles? And if this were done, and it was possible to prove that such action on the part of these manufacturers had been instigated by the Association, could the executive or members of the Association be charged with conspiracy?

This, in our view, does not arise.

4. Would it be illegal for these manufacturers, instead of laying down two prices, to refuse altogether to supply the man who did not sell at the prices which they stipulated—that is, could they undertake, either by themselves or through their agents, to refuse to supply a man with the whole of these articles because he cut one of them below the prices stipulated by the particular manufacturer who owned it?

It would not be illegal for the associated traders, instead of laying down two prices, to refuse altogether to supply the man who did not sell at the prices for which they were stipulated—that is to say, they could legally undertake, either by themselves or through their agents, to refuse to supply a man with all or any of the articles sold by them respectively because he cut one of them below the prices stipulated for by the particular manufacturer who owned it.

5. In reference to the agreement between the wholesalers and the manufacturers, could a penalty be stipulated and recovered, or could a clause such as this be inserted: "In the event of my breaking the conditions of this agreement I agree to forfeit my agency, and in the event of my desiring to re-establish such agency to pay to the funds of the Association a sum of 50*l.*?"

A clause such as that proposed in agreements between the manufacturers and the wholesale dealers would be legal and valid.

6. If the methods proposed to be adopted to carry out object (b) are not legal, and cannot therefore be adopted, what is the best way in which that object could be attained?

This does not arise:

(Signed) EDWARD CLARKE.

(Signed) CHAS. E. E. JENKINS.

Discussions on the By-laws.

THE general quarterly meeting of the Plymouth, Devonport, Stonehouse, and District Chemists' Association was held on April 14 at the Foresters' Hall. Mr. G. Breeze was in the chair, and fourteen other chemists were present.

After a resolution recommending Mr. Park's election to the Council of the Pharmaceutical Society had been passed, the proposed new by-laws were discussed.

Mr. Cocks asked whether it was correct that the increase in fees for the Minor examination was going towards wiping off the deficit incurred by the *Pharmaceutical Journal*.

Mr. Park replied that, after subtracting the price of advertisements, the net cost to subscriber of the Society was 4s. 4d. per head. He repudiated the idea that the increased fees were to pay for the *Journal*, and referred those who had not already read it to the editorial in the *Pharmaceutical Journal* of March 20, page 255. He was glad to have heard so many warm expressions of approval passed on the *Journal* by members of the local Association. The *Journal* was not run on purely commercial lines; it was not conducted with the sole object of making the greatest return to its proprietors, but was conducted for what was regarded as the best interests of the whole body. They could easily conceive of advertisements being offered to the *Journal* under conditions which, while they would naturally increase its revenues, would lower its standard, compromise its supporters, and, possibly, mislead its readers. With regard to the heavy expenditure of late years, which had been undertaken at the desire of members, they had increasing proof of its wisdom in every issue of the *Journal*, and that expenditure was being rapidly recouped by an increasing revenue from advertisements. The supporters of the Pharmaceutical Society were its proprietors, and it was for them to say if they were satisfied with the manner in which it was conducted. He hoped they would endeavour to make the *Journal* a financial success, as undoubtedly it was a literary one. Whether it was financially so or not, it was imperative that they should have an organ to represent British pharmacy, independent of outside interests.

Messrs. Hunt, Turney, J. R. Johnson, Kelly, and Barge also took part in the discussion.

Mr. Cocks proposed, and Mr. Turney seconded, the following resolution:—

That this Association approves of the new by-laws as proposed by the Pharmaceutical Council, and considers that they are desirable both in the interests of the public and those engaged in the business.

Mr. Barge moved as an amendment that the time for altering the fees for the Minor examination be altered from January, 1899, to January, 1900, maintaining that it did not give apprentices engaged in the business sufficient time to pass. Mr. Cocks's resolution was passed almost unanimously, Mr. Barge being the only dissident.

A special evening meeting of the Aberdeen and North of Scotland Society of Chemists and Druggists was held on April 14, Mr. John Johnston (President) in the chair. After the preliminary business, Mr. Craig submitted the following motion:—

That the members of the Aberdeen and North of Scotland Society of Chemists and Druggists at this meeting, convened for the discussion of the proposed new by-laws of the Pharmaceutical Society, wish to express their disapprobation of the attempt of the Society to raise the fee of the Minor examination to 10l. 10s.

He said that only two reasons could be given for the proposal—first, that it would give the Pharmaceutical Society increased funds, and, second, that by possibly reducing the number of chemists the status of the trade would be improved. But with regard to the first reason, he argued that the examinations already fully paid the Society. It was the *Pharmaceutical Journal* which swallowed up the funds, and Mr. Craig contended that the Society had no right to make candidates pay for a journal that was supplied to members of the Society, and that the *Journal* should be

placed on the same footing as other journals, letting those who want it subscribe for it. As to the anticipated improvement of the condition of chemists, he said the effect of the increased fees would more probably be that a number of unqualified men would come into competition with qualified men as assistants, and thereby reduce wages.

Mr. Urquhart seconded the motion, and Mr. A. L. Bruce supported it.

Mr. John Cruickshank (Hon. Secretary) proposed as an amendment—

That the Aberdeen and North of Scotland Society of Chemists and Druggists support the action of the Council of the Pharmaceutical Society in framing the new by-laws.

He said that even if Mr. Craig's contention were true, that the *Pharmaceutical Journal* swallowed up the funds of the Society, was it not the case that the chemists throughout the country insisted that the *Journal* should take up trade-interests more and not confine itself to the purely scientific side? Chemists both in and out of the Society had also occasionally clamoured for more prosecutions against unqualified traders. This had been taken up most vigorously by the Society, and recently a number of prosecutions had taken place in Scotland, but the paltry sums recovered were quite inadequate to meet the large outlays. Then how was the expenditure to be met while three-fourths of the chemists remained outside the Society and subscribed not a farthing to its funds?

Mr. Clark, Ph.C., seconded the amendment, and Mr. Ritchie supported it. The amendment was carried by eight to four over Mr. Craig's motion.

Bankruptcy Report.

Re HENRY RAMM PLATTIN, Fakenham, Chemist and Druggist.

THIS debtor's public examination took place at the Norwich Bankruptcy Court last week. The liabilities amount to 1,058l. 8s. 7d., and the deficiency is 298l. 7s. 8d. Debtor stated that he was previously with his father, who died insolvent in 1889. He acquired the business on agreeing to pay the creditors 7s. 6d. in the pound, and he borrowed money to pay the instalments. The business did not improve much at first, and during the last two or three years it had gone down. He kept no records beyond a day-book and a ledger, but believed his return would be about 250l. He had been subject to county court summonses for the past two years, but might occasionally have had them for the past eight years. He reared prize fowls, and sent them to different shows, but he had not neglected his business through that. He had not spent a great deal of his time at the billiard-table, but had sometimes had a game when the shop was closed. The climax was brought about by five executions being put in at once, and he then filed his petition. The previous Saturday he had paid out two executions for 9l. odd, but he did not then know what his position was, because he had never taken stock. It did not occur to him then that he was giving a preference to those particular creditors. He attributed his failure to decline in trade, and contended that he had not neglected his business. The deficiency had been growing for the last fifteen months, and he had known it during that period, but thought trade might improve, and he could pull himself round. The examination was adjourned.

Gazette.

PARTNERSHIP DISSOLVED.

Spurrier, H., and Spurrier, G. S., under the style of the Stott Fertiliser and Insecticide Company, Manchester and Leyland, Lancashire.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATION.

Balchin, Edward Samuel, chemist, Gosport.

Legal Reports.

SALE OF FOOD AND DRUGS ACT.

LIME-CREAM AND GLYCERINE.—CONFLICTING CERTIFICATES.

AT Brentford Petty Sessions on April 17, before Mr. Montagu Sharpe (Chairman) and a full Bench of Justices, the adjourned summons against Mr. James Wilkey Webber, chemist and druggist, of 202 High Road, Chiswick, for having sold lime-cream and glycerine not of the nature, quality, and substance demanded was proceeded with.

Mr. G. W. Lay defended.

The certificate of Mr. E. Bevan, the county analyst, upon which the prosecution was taken, stated there was no glycerine in the compound. The adjournment had been granted in order that the third portion of the sample might be submitted to Somerset House.

The Clerk of the Court read the certificate received as follows:—

Government Laboratory, Somerset House,
London, W.C.

The sample of lime-cream and glycerine marked "W. M. 76," and referred to in your letter of the 24th ult., was received here on the same day securely sealed. We hereby certify that we have analysed the sample, and find that there is a mixture of vegetable and mineral oils, lime-water, sugar, and glycerine, the last ingredient being present to the extent of $\frac{1}{2}$ fl. dr. to 8 oz. of the mixture. As witness our hands this 2nd day of April, 1897.

R. BANNISTER, F.I.C., F.C.S.
G. LEWIN, F.I.C.

Mr. Lay said this statement was entirely in accord with the evidence given by the defendant and his witnesses at the last hearing. The Bench would remember that the young man who made up the compound swore he put in glycerine to the extent of $\frac{1}{2}$ dr. to the 8-oz. bottle.

The Clerk: The Court is not bound by the Somerset House certificate.

Mr. Lay: But it corroborates my evidence.

The Chairman said the only question was that of the clashing certificates. They were very wide apart indeed, and it would be only fair to the county analyst to hear if he had anything to say.

Mr. E. Bevan, the county analyst, who was in attendance, said he could not accept the Somerset House certificate as correct. He had submitted the sample to an analyst of great experience, and he was satisfied with the correctness of his own analysis.

Mr. Allen Brown (on the Bench): The defendant had a separate analysis, did he not?

Mr. Lay: Yes, long before the sample went to Somerset House. It agrees with the latter.

The Chairman (after consultation with the other Justices) said: We think, in the interests of the county, this matter cannot rest here. We must have these gentlemen down from Somerset House for cross-examination. The prosecution was started upon an official analyst's certificate, and the Bench had a right to test it to the fullest.

Mr. Lay said he must remind the Bench that Mr. Bevan had sworn upon oath that in every sample he had analysed he had never found glycerine.

Inspector Tyler: I must say that is not so.

The Chairman: We have nothing to do with other samples, but only the one before us. This is a very serious matter for the county and for Somerset House. We cannot tell which is right, so we must hear these chemists in the witness-box, and then we can question them and form a fair conclusion.

Mr. Lay: Your Worships understand I ask for a dismissal upon the second certificate.

The Chairman: Of course. You will not have to pay the costs. We are doing this in the best interests of all parties and the county analyst.

The summons was adjourned accordingly.

TINCTURE OF RHUBARB.

AT the Chorley Petty Sessions last week William Hurst, grocer, of Wheelton, was summoned for selling adulterated tincture of rhubarb. Police-sergeant Jackson said that he

purchased 7 oz. of compound tincture of Turkey rhubarb, which the analyst certified contained over 20 per cent. of water. Mr. Kevil, for the defence, said Mr. Hurst had no intention of deceiving the public, and any penalty that might be imposed by the Bench would be paid by the firm who supplied the article in question. Defendant was fined 20s. and costs, the Chairman remarking that although there was no intention on the part of defendant to defraud, they were bound to protect the public. The only fault defendant had committed was that of carelessness.

LIME-JUICE CORDIAL.

AT the Liverpool City Police Court on Wednesday, before Mr. Kinghorn, Deputy Stipendiary Magistrate, John Henderson, shopkeeper, of 220 Stanley Road, was summoned for selling a bottle of lime-juice cordial which the Public Analyst certified contained 100 gr. of salicylic acid per gallon, which was so excessive as to render the sample unwholesome. Mr. Rudd, who defended, pointed out that the defendant was not the manufacturer of the cordial. The people who made the cordial, he said, would not put more salicylic acid into it than was necessary, because the acid was more expensive than lime-juice cordial. Mr. Rudd also objected to the validity of the proceedings on the ground that the purchaser of the cordial (Inspector Vick) was the only one who could take proceedings, whereas the information was laid by Inspector Baker. The Magistrate overruled this objection, and, believing that more salicylic acid than was necessary had been put into the cordial, fined the defendant 5s. and costs.

OLIVE OIL.

AT Skipton, on April 17, the manager of the Silsden Co-operative Society was summoned by Inspector Randerson for supplying 10 oz. of olive oil, which Mr. Allen, of Sheffield, the county analyst, certified was adulterated with cotton-seed and sesame oils to the extent of 25 per cent. Mr. Holdsworth, secretary to the defendant Society, said they had ordered from the Wholesale Co-operative Stores, at Manchester, pure olive oil, and he produced the invoice, which contained the description, "Pure olive oil." They did not know that the oil was adulterated until the summons. Witness informed the inspector when he was purchasing the sample that the oil was simply scented, and that it was sold for hair-oil. A Magistrate said the defendant ought to be very grateful to the inspector for finding out for them that the oil was not pure. Fined 5s. and costs—17. 5s. 10d.

SCOTCH CHEMISTS AND WINE-LICENCES.

AT the Glasgow Licensing Court on April 13, before Bailie Chisholm (presiding) and other Magistrates, Charles Taylor Cockburn, chemist, 56 St. Enoch Square, applied for a renewal of his licence. Mr. Boyd explained that applicant was a chemist and druggist, and that the certificate had been granted for dispensing purposes. Of late, however, it had been observed that Mr. Cockburn had a number of bottles containing British and foreign wines on sale in the window. Mr. Angus Campbell said Mr. Cockburn had acted within his certificate; but if the Court wished, the bottles would be withdrawn from the window. Mr. Cockburn, in answer to the Chairman, said he sold medicated wines and wines which were used for the manufacture of medicated wines. As a rule, all wholesale drug-houses did that. The Chairman asked Mr. Cockburn if he was prepared to say that he would restrict his trade to medicated wines. Mr. Cockburn replied in the affirmative, and the licence was unanimously renewed. Robert McAdam, Glasgow Apothecaries' Company, Virginia Street, was granted a renewal of his certificate on the same understanding.

RENDELL'S PESSARIES.

IN the Chancery Division of the High Court, on April 2, in the case of John Pullen, trading as W. J. Rendell, v. E. Lambert & Son, Mr. Justice Romer granted (by consent) a perpetual injunction restraining the defendants from selling, advertising, or offering for sale any pessaries or suppositories in connection with which the name of

"Rendell" is used. The defendants agreed to rectify their price-lists, and to pay to the plaintiff the sum of 20*l.*, in full satisfaction of all claims in respect of damages and costs.

ADMINISTERING POISONOUS DRUGS TO HORSES.

At Market Rasen Petty Sessions last week a lad named Vessey was summoned for having administered poisonous drugs to his master's horses. The police found in the boy's possession some oil of vitriol, hellebore, copperas, and other drugs, and the solicitor who prosecuted on behalf of the Lincolnshire Society for the Prevention of the Administration of Poisonous Drugs to Horses asked the Bench to express an opinion with respect to the conduct of the chemist who had sold these drugs. The defendant's solicitor said he gave the drugs twice because the animals suffered from influenza. He was very sorry for what he had done, but he did it with the best intentions. He asked the Bench to be as lenient as possible. The Chairman said the Magistrates considered the case to be a very serious one, so serious indeed that they had discussed whether they should fine the defendant or send him to gaol. They were exceedingly sorry the drugs were not scheduled as poisons, for if they had been they should have visited upon the chemist who sold them a very heavy penalty. He did wrong in trusting them to a young lad. They imposed a fine of 3*l.* and 4*s.* 6*d.* costs.

THE PASKOLA CASE.

A FURTHER investigation of the alleged libel of A. J. White's Paskola by Scott & Bowne was held in New York early this month. It will be remembered that the firm of A. J. White claim \$200,000 damages from Scott & Bowne in reference to the alleged circulation by the latter firm of certain articles declaring Paskola to consist principally of glucose with a little hydrochloric acid. At the last hearing in New York Dr. Eccles, the author of the first of these articles, was subjected to a severe examination by A. J. White's counsel, with the object of showing his incompetence on physiological questions. The plaintiffs think they demonstrated this, while Dr. Eccles' friends consider he came out of the ordeal satisfactorily, and that only in a few instances, where he and the counsel misunderstood each other, was there any slip.

New Companies and Company News.

BATEMAN'S CHERUB SOAP COMPANY (LIMITED).—Capital 10,000*l.*, in 10*l.* shares. Object: To take over the business of a soap-manufacturer, glycerine-manufacturer, oil-refiner, and alkali and chemical manufacturer carried on by James T. Bateman at the Cherub Soap Works, Brookhill Road, Bootle, Lancs.

WHITEHOUSE CONFECTIONERY COMPANY (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Object: To take over the business of a confectioner, chocolate and sweets manufacturer, and proprietor, manufacturer, and vendor of a registered medicament called "Anti-Rabies Dog Tablets," now carried on by Alfred R. McKill at Hunslet, Leeds.

J. W. DOBSON (LIMITED), with a capital of 25,000*l.*, in 1*l.* shares, to take over the business of a bottle, box and mineral-water machinery manufacturer carried on by John W. Dobson at the Oaks Glass Bottle Works, Barnsley. John W. Dobson is the permanent governing director, with 300*l.* per annum. Registered office, Oaks Glass Bottle Works, Barnsley, Yorks.

BRITISH SUGARINE SYNDICATE (LIMITED), with a capital of 10,000*l.*, in 1*l.* shares, to acquire from E. D. Savigny, of 145 Fleet Street, London, E.C., the benefit and patent rights of his invention known as "Sugarine," and to carry on the business of sugarine manufacturers and merchants, sugar refiners, confectioners, &c. Registered without articles of association. Registered office, 2 Red Lion Court, Fleet Street, E.C.

SINGLETON & COLE (LIMITED).—A resolution of this company (wholesale tobacco and cigar merchants) to register a new company (winding up the old one) was adopted on March 25, and confirmed on April 12.

A. J. WHITE (LIMITED).—This business which is mainly that of the manufacture and sale of Mother Seigel's Syrup, is to be offered to the public next week for one million sterling, and the vendors pay the trade the compliment of first announcing their offer in this journal. The capital of the company is divided into 500,000 6-per-cent. cumulative preference shares, and 500,000 ordinary shares. The vendors take one third of each of these shares in part payment of the purchase price for the business, which is fixed at 960,000*l.* Mother Seigel's Syrup is believed (by the vendors) to have the largest sale of any proprietary medicine in the world. The vendor company was formed in 1884 and the auditor certifies that the business has been a steadily increasing one. The net profits for the last four years are certified to have been 357,685*l.* 0*s.* 6*d.*, or an average of 89,421*l.* 5*s.* 1*d.* per annum. The maintenance of this profit will allow of the payment of the 6 per cent. dividend on the preference shares, and over 11 per cent. on the ordinary shares.

GERMAN CHEMICAL DIVIDENDS.—The Chemische Fabrik at Buckau, Magdeburg, will pay a dividend of 5 per cent. for 1896. It is intended to increase the original share-capital by 1,500,000*m.*—The dividend of the United Thuringian Salt Works at Halle is 4 per cent., and of the Chemische Fabrik at Heinrichshall 6 per cent.—The chemical-works of J. E. Devrient at Zwickau will pay 3 per cent.—The profit for 1896 of the Badische Anilin- und Soda-fabrik at Ludwigshafen o/Rh. has been 8,018,758*m.*, out of which a 26 per cent. dividend will be paid on the ordinary shares. The board of directors will submit to the annual general meeting of shareholders on May 8 a proposal to increase the share-capital from 16½ to 18 millions of marks.—The report for 1896 of the Farbwerke, formerly Meister, Lucius & Bruning, of Hoechst, states that the factories of the company were fully occupied during the past year. There has been a great increase in the sale of aniline dyes, but in the second half of the year the consumption of alizarine has fallen off considerably owing to the political conditions of the United States and to the Indian plague and famine. The building of new factories is progressing, and for this year again a considerable sum is set aside for the continuation of the extension of the works and the purchase of new plant. The new works will include a large experimental dyeing-factory. The prices of almost all products of the company have again declined, and the antipyrin business has suffered considerably from new competition. There was a steady demand for diphtheria remedies, but the sale of these also suffers from the fact that in almost all countries these remedies are now manufactured. The other pharmaceutical articles of the factory are in good demand. Nitragin, a new preparation for agricultural purposes, is selling fairly well, but its introduction meets with difficulties and is very costly. It is therefore not anticipated that the manufacture will be profitable for some considerable time to come. The net profit has been 1,367,722*m.*, against 1,204,579*m.* in 1895. The dividend will be the same, viz., 28 per cent.

Trade-Marks Applied for.

(From the "Trade Marks Journal," April 7, 1897.)

"FLOBOZONE" and picturesque device on label; for an aromatic and antiseptic disinfectant. By Pearse Morrisou, 68 Leadenhall Street, London, E.C., printer and stationer. 201,859. Essential particular: The device.

"ANTARITE"; for chemical substances used for agricultural, veterinary, sanitary purposes, &c. By Peter Spence & Sons, Manchester Alum Works, Manchester. 202,370.

"KALEMA," and device of floral label with wording; for a medicine for the cure of toothache and neuralgia. By S. A. Walton, 190 Broadhurst Gardens, West Hampstead, London, N.W. 201,775. Essential particular: The word "Kalema."

- "TUGER"; for medicines for human use. By the Talbot Herbal Remedies Company (Limited), 22 Wormgate, Boston, Lincolnshire, chemists and herbalists. 200,772.
- "ZULU" and device of Zulu holding up tablet of soap; for medicated soap for human use. By Lever Brothers (Limited), Port Sunlight, near Birkenhead. 201,676. Essential particular: The device.
- Sketch of boy with bandaged head and abnormally swollen cheek and wording, "A Swell Affair"; for a medicine for the cure of toothache. By C. S. Dent & Co., 74 West Congress Street, Detroit, U.S.A. 202,119. Essential particular: Device.
- "THE VENUS"; for photographic cameras, lenses, and apparatus. By H. D. Squire, Marshgate Chemical-works, Stratford, London, manufacturing chemist, 202,555.
- "APHRODITE"; for perfumed soap and other similar articles included in Class 48. By the United Alkali Company (Limited), 611 Exchange Buildings, Liverpool. 199,918.
- "KOSEALS"; for cachets made of materials included in Class 50. By T. Christy & Co., 25 Lime Street, London, E.C. 202,203.

(From the "Trade Marks Journal," April 14, 1897.)

- Combination of circular devices representing table with food, swarming with cockroaches, the whole being surmounted by wording; for a paste for killing cockroaches and beetles. By Horace Edward Ramsden, trading as Ramsden & Birch, Bee Hive House, Rolleston Road, Rolleston, Burton-on-Trent, chef. 201,530. Essential particular: The combination of devices.
- Collection of miscellaneous circular sketches representing invalids, &c., and wording; for patent medicines, liniments, and medicated articles for human use. By J. R. Hudson, 47 Exchange Street, Sheffield, provision merchant. 202,187. Essential particular: The sketches.
- "BRINKA"; for all goods included in Classes 3, 11, 42, 47, and 48. By T. Kerfoot & Co., Bardsley Vale Mills, Ashton-under-Lyne, manufacturing chemists. 202,996-7-8-9 and 203,300.
- Representation of hand holding tray of pastry, moulded jellies, &c., contained in ornamental device with name of applicants; for an aerating powder, for use in baking bread, pastry, and similar food stuffs. By the Kreamartar Company, 81 Bishopsgate Street Without, London, E.C. 202,330.
- Sketch of armed Sikh riding cycle, on square label, with wording; for a lubricating and illuminating oil. By J. H. & S. Johnson, 6, 8, and 10 Whitechapel, Liverpool, wholesale druggists. 201,723. Essential particular: The device.
- Signature of applicant written in parallelogram, with black background; for toilet articles and perfumery. By Sefton Harvey, 5 Denman Street, London Bridge, S.E., soap maker, &c. 202,983.
- "VICTORIA MOSELLE" and other wording on oval label, containing figure of circle within triangle; for a non-intoxicating aerated beverage. By A. Boake, Roberts & Co., 100 Warton Road, Stratford, London, E., manufacturing chemists. 200,549. Essential particular: The devices.

Marriages.

JONES—LLOYD.—On April 17, at St. Philip's Church, Litherland, Arthur Hugh Jones (representative of Messrs. Ayrton & Saunders, Yorkshire district), eldest son of R. H. H. Jones, of her Majesty's Customs, to Amy, second daughter of W. H. Lloyd, of Liverpool.

MAUNDER—HEWITT.—On Tuesday, April 20, at Holy Trinity Church, Meole Brace, by the Rev. W. T. Fielding, of St. James's, Boston (brother-in-law of the bride), assisted by the Rev. Ernest Havergal, Meole Brace, John Hannaford,

eldest son of William Maunder, chemist and druggist, Teignmouth, S. Devon, to Florence Elizabeth, fifth daughter of Charles Hewitt, Meole Brace, Shropshire.

Deaths.

BACKHOUSE.—On April 9, Mr. William Backhouse, pharmaceutical chemist, Leeds. Aged 69.

BASTIN.—The death occurred, on April 6, of Dr. Edson Sewell Bastin, Professor of Botany and Materia Medica at the Philadelphia College of Pharmacy. He was in his 54th year, and had held the chair since Professor J. M. Maisch's death in 1893. Dr. Bastin's life had about it some of those romantic touches which are almost peculiar to Americans. When the war broke out he was attending a college classical course. He promptly enlisted as a private in an infantry regiment, and at the close of the war was captain in a cavalry one. He then left the army, took his Arts degree two years later, and began study for the ministry. Lacking faith, he abandoned that pursuit for pharmacy, and in Chicago opened a drug-store, which, however, he sold out after the great fire. Botany had by that time taken a firm grip of him, and, as Registrar in the University of Chicago, he had a congenial position which allowed him ample time to pursue his studies. Two years later—i.e., in 1876—he was appointed Professor of Geology and Botany in the University, and lectured with acceptance until, in 1883, his "views" were found to be out of harmony with the institution, and he resigned. Meanwhile, he had been lecturing on botany at the Chicago College of Pharmacy, and he retained that post until, in 1890, he joined Professor Oscar Oldberg in the secession to the North-Western University School of Pharmacy, where he founded magnificent botanical laboratories, the reputation of which, and the man's own reputation as an investigator, extended to the East, and took him to Philadelphia in 1893. He was a hard worker, a capable investigator, and an attractive lecturer. He was the author of several botanical books. He had been ailing since last autumn, and died of nervous exhaustion.

BULCOCK.—On April 4, Mr. Henry Bulcock, chemist and druggist, Clitheroe. Aged 76.

LYNCH.—On April 13, at Ballyowen, South Norwood Park, Mary, the beloved wife of Thomas Frank Lynch, and daughter of the late G. H. Benbow, of Ham Common. Aged 57.

PRESSLIE.—At Aberdeen on April 13, Dr. Robert D. Presslie. Aged 43. The deceased gentleman was trained in pharmacy and about twenty years ago passed the Major examination after which he commenced the study of medicine at Aberdeen University, took the degree of M.B. C.M., at Marischal College, where he distinguished himself in most of his classes. He was assistant to the Professors in the classes of materia medica, physiology, and the practice of medicine, and also carried on a large part of the teaching and preparation in the class of pharmacy. He afterwards had an extensive medical practice, but latterly devoted most of his time to his pharmacy. He is survived by a widow and one son.

SARSFIELD.—At his residence, North Bailey, Durham, on April 12, Mr. William Sarsfield, pharmaceutical chemist. Aged 61. The deceased gentleman was a magistrate and J.P. for the city of Durham, and at one time took an active share in public life, being auditor to the Corporation. He was a successful business man, having built up a large dispensing business, which he carried on at the time of his death. Mr. Sarsfield was the oldest qualified chemist in the city, and at one time he was the only one in business.



Coroners and Carbolic Acid.

A MEMBER of our staff has had an opportunity of an interview with Mr. A. Braxton Hicks, one of the London and Surrey Coroners, and Honorary Secretary of the Coroners' Society of England and Wales, during which the eminent Coroner's action with regard to chemists was discussed, when he remarked, "I have no feeling against



chemists. Why do some chemists think I have? On the contrary, I have always done, and shall continue to do, all I can to assist them to maintain and increase their professional status. I think I did chemists a great service when I called attention to the breach of the Pharmacy Act which led to the case of the Pharmaceutical Society *v.* Wheeldon."

"But that has always been our view, Mr. Hicks," responded the *C. & D.* representative. "And it is the view, I believe, of all who take an intelligent interest in pharmaceutical progress. The action was undoubtedly due to you. But it was in consequence of the subscription got up by THE CHEMIST AND DRUGGIST that a High Court decision was arrived at."

"I know that," said the Coroner. "THE CHEMIST AND DRUGGIST backed me up well on that occasion."

Among other themes of conversation, carbolic acid soon found a place, though no carbolic fatality had figured in the six inquests Mr. Hicks had held that day. In answer to an inquiry for his opinion as to the scheduling of this substance, Mr. Hicks asked, "Do you want my personal opinion or my statement as Hon. Secretary of the Society of Coroners?"

The *C. & D.* representative did not know that there was a Society of Coroners. But he soon learned that its membership comprises a large majority of the Coroners of England and Wales, and that at its occasional meeting topics of public interest are discussed, and representations made to the Home Secretary and other authorities. And this was what the Coroners' Society for England and Wales reported to the Home Secretary last July in reference to the Poisons Schedule of the Pharmacy Act generally, and carbolic acid in particular.

THE SALE OF POISONS (PHARMACY ACT).

June, 1896.

Year by year the deaths from carbolic-acid poisoning are increasing, and Judges, Coroners and Juries are constantly making representations to the Privy Council and the Pharmaceutical Society to endeavour to get carbolic acid added to the "poisons schedule" of the Pharmacy Act. Although it is

such a deadly poison, no restrictions are placed upon its sale—the result being that in many cases it is looked upon as being entirely innocuous. Some manufacturers at present take the trouble to label it "Poison," and place it in distinctive bottles, but the cheap and crude carbolic, which is mostly purchased by the poorer classes, is sold by oilmen and similar shopkeepers without restriction or any precautionary measures being adopted. It is generally placed in such vessels as the purchasers may take with them, such as beer-bottles, old tin cans and other receptacles in daily use amongst them for containing household and harmless liquids. The result is that no precautions being taken by the vendors of carbolic acid, none are exercised by the purchasers themselves to keep it in a safe place, or to specially identify it, and adults and children frequently take it in mistake for beer, &c.

The Coroners' Society further urgently desire that the sale should be under some reasonable restriction. If it is not considered advisable to include carbolic acid in the first or second part of the schedule, so as to restrict its sale to chemists or druggists, at least it should only be sold in some distinctive vessel, which should be plainly labelled "Poison," in large letters. It is clear that no precautions could prevent the article being used in all cases; but if a warning were given as to its nature, with directions to place it in safety, many accidents, and possibly suicides, would be prevented. It is to be further noted that during an epidemic and at other times, parochial authorities not infrequently gratuitously distribute carbolic acid for disinfecting purposes in a way only equalled by the careless methods in vogue at oil and other shops.

The Society is of opinion that some special precaution ought to be insisted upon in the case of authorities who gratuitously distribute it, as well as with persons who sell it. Many cases of misadventure have been proved to have arisen through its indiscriminate distribution, and without any action or advice as to its poisonous nature.

There are other deadly poisons, such as hydrochloric, or spirits of salts, nitric acid, sulphuric acid, benzoline, &c., which are now allowed to be sold for commercial purposes without any restriction.

Some precaution should certainly be adopted with regard to the sale of these, and in fact all poisons; and further security obtained by placing the poisons in bottles or jars specially constructed in shape and colour, and duly labelled with the name and address of the person selling the same.

The Home Office, we understand, forwarded this memorial to the Privy Council Office, who stated that the matter was under its consideration.

Mr. Braxton Hicks was not very willing to express an opinion outside that official document, but it appeared that his preference would be for simply scheduling the poison under the Act, though he said Coroners had to consider the question from a practical point of view, and get done for the public benefit what was possible, if it was not always ideally the best.

New Books.

Riedel, Max. *Gallen und Gallwespen: Naturgeschichte der in Deutschland vorkommenden Wespengallen und ihrer Erzeuger* (i.e., Galls and gall-insects: Natural history of the gall-insects found in Germany and of their products). 8vo. Pp. 75. With illustrations and plates. 1m. (Süddeutsches Verlag-Institut, Stuttgart.)

Schulz, Gustav, and Julius, Paul. *Tabellarische Übersicht der im Handel befindlichen künstlichen organischen Farbstoffe* (i.e., Tabular review of the artificial organic dyes of Commerce). 3rd, revised and enlarged edition. Cloth. 20m. (R. Gaertner's Verlag, Berlin.)

Seyewitz, A., and Sisley, P. *Chimie des matières colorantes artificielles*. Complete in 5 parts. 8vo. Pp. 650. 25f. (Parts 1-3.) (Masson & Cie, Paris.)

Stoney, Emily A. M. *Nursing: Practical Points for Nurses in Private Practice*. Appendix of Rules for Feeding the Sick; Recipes for Invalid Foods and Beverages; Weights and Measures; Dose List; Glossary of Medical Terms and Nursing Treatment. 73 Illustrations in text and 9 coloured plates. 8vo. Pp. 466. 7s. 6d. net. (Scientific Press.)

Tipper, H. *England's Attainment of Commercial Supremacy*. Cr. 8vo. Pp. 172. 5s. (Stevenson.)

Röntgenography for Pharmacists.

IV.

MR. F. H. GLEW, of Clapham Road, one of the first pharmacists to go in for this branch of work, sends us some notes from which we extract the following:—

Radiography comes well within the scope of the scientific pharmacist, and if he does not seize this opportunity the medical profession will cater for their own requirements, as radiography is almost a necessity in surgery. In many cases the chemist has the advantage over the surgeon in matters photographic and electrical, and he is more fitted to deal with the practical application of Röntgen work in surgery than the electrical-instrument dealer, into whose province the work is next likely to fall. The pharmacist's weakest point will probably be anatomy, and for the best results it will be well for him to read up this part of the subject. In every town of importance there is likely to be work enough for a first-class radiographic outfit. It may not be a very profitable adjunct to a chemist's business, but it will bring him well in touch with the local medical profession, and pay, indirectly, in the long run. He should first try to obtain the appointment of radiographer to the local hospitals, workhouse infirmary, prison, or lunatic asylum, barracks, &c. The outfit should be portable, so that every-thing can be put into a cab expeditiously.

POINTS ABOUT THE APPARATUS.

When you buy a coil, see that you get one with a proper spark. There are sparks and sparks; for Röntgen work, the thick, fat variety of sparks is needed. Many so-called 6-inch coils give a thin 6-inch spark, and that with a lot of coaxing; but they will not stand this for long without the primary coil getting too hot, through having to use excessive battery power.

The Apps patent contact-breaker is a vast improvement on any other kind in the market; with it one is able to control the ampères to a nicety, and, once set, it works steadily through the operation, without the constant attention which other contact-breakers require. Storage-batteries with Litanode plates are best. They are not easily damaged by shaking, and there is very little leakage of charge when not in use; also greater liberty can be taken with them in charging and discharging at heavy rates than with some makes of storage-cells. The green fluorescence of the glass of the Crookes tube is a good guide as to the way the tube is working, but not with all tubes. Fluorescence of the glass is really a defect. Some glass fluoresces much more than others. The glass which gives least fluorescence lets the x -rays come through unabsorbed, so do not refuse a tube because it does not give much fluorescence.

FOR PHOTOGRAPHING

I prefer Thomas's "A1" plates for Röntgen photography. I have tested different makes by cutting them up with a diamond, and giving all a simultaneous slight exposure under graded thicknesses of tinfoil, then developing until slight chemical fog appeared on the unexposed parts. Thomas's "A1" plates registered two thicknesses of tinfoil more than the others, and the range of gradation was also superior; they do not easily fog with a strong developer. Hydroquinone and eikonogen mixed is best.

WHAT IS IT WORTH?

Fees cannot very well be fixed, except for simple cases, such as the hand, arm, or elbow, and 5s. is little enough for one photograph, 3s. 6d. for a second position, which is often necessary or desirable. For splintered bones two photographs should always be taken, so that a defect in the plate cannot mislead the surgeon. The best plan is to charge according to time, trouble, and importance of the result, or by arrangement.

I think the apparatus should be devoted entirely to scientific work, and not used as a sort of peep-show for payment, or it would lose its professional aspect. The pharmacist should be prepared to take orders for outfits, &c. If a pharmacist in a suitable district will only go in for radiography with some spirit, with the most perfect outfit, he

will capture the position, and largely prevent the medical profession absorbing the work for themselves; but if he goes in for it in a cheap, half-hearted way, the work will go into some other channel, and it will bring discredit on himself and pharmacy generally.

BOOMING RADIOGRAPHY.

In regard to Mr. Glew's remarks we may say that many pharmacists have already recognised that radiography can be made an important factor in maintaining or advancing their scientific reputation both with medical men and the public. To those who have recently set up an x -ray installation the following hints are offered as to making known the fact. Primarily, of course, the medical profession should be informed that the apparatus is available for their use in diagnosis. They should be each seen personally (it forms a very good excuse for looking up the local men) and be given to understand that they are at liberty to use the apparatus at all times, and that the charges are moderate. Failing a personal visit a circular should be sent to each by post. It is well to polish up one's knowledge of electricity and anatomy, especially the latter, for use when talking with medical men.

If accumulators are used the apparatus should always be kept in readiness and something be arranged for completely darkening the room, so that radioscopy can be practised in the daytime. Where possible a private demonstration to medical men should be arranged which will show them the possibilities and, what is quite as important, the limits of the process. A young lad is a good subject for "seeing through"; this is easily managed if using a 4-inch spark coil, a good focus tube and screen. The whole apparatus should have a tent erected over it to stop out all light given off from the tube and contact screw; then, after waiting a few minutes to accustom the eyes to the darkness, if the lad be placed with his back to the tube, and the screen in front of him, it is surprising what a lot of the internal anatomy can be seen. Many interesting experiments might be shown with vacuum tubes. There is a set of four 18-inch tubes on the market for showing the effects of passing a 4-inch spark in tubes of different degrees of exhaustion. In the first tube (only slightly exhausted) a 4-inch spark is shown extended to 18 inches; in the second tube, slightly more exhausted, the spark is replaced by a violet glow filling the whole tube; in the third the phenomena of striation is shown, and in the fourth the apple-green glow so well known in connection with Crookes's tubes is exhibited. Many of Crookes's experiments in radiant matter suggest other experiments, the glowing of different minerals (phosphate of calcium, scheelite, rubies, &c.) in a vacuum being very beautiful. Vacuum tubes may also be had in fancy designs and made of various glasses, giving different tints, and with spaces for filling with fluorescing liquids.

The general public are more easily interested in boxes and books containing coins or other articles, for looking through. A few minutes' reflection will show endless variety of articles which may be pressed into service.

It will be noticed as a curious thing the large number of persons who have needles or pieces of glass imbedded in their hands, and the many people who have had a limb broken at some time in their life, all of whom make interesting subjects for demonstration purposes.

FLUORESCING SUBSTANCES.

The following is a list of substances which Edison finds to fluoresce when subjected to the x rays:—Mercury diphenyl, cadmium iodide, sulphide calcium, potassium bromide, tetrameta-phosphate of lead, potassium iodide, mercurous chloride, bromide lead, sulphate lead, fluorite, powdered lead glass, pectolite, sodium cressonate, ammonia salicylate, calcium salicylate, salicylic acid.

The following are salts which fluoresce less:—Powdered German glass, barium fluoride, calcium fluoride, sodium fluoride, sodium chloride, mercuric chloride, cadmium chloride, silver chloride, lead chloride, lead iodide, sodium bromide, cadmium, lithia bromide, mercury, cadmium sulphate, uranium sulphate, uranium phosphate, uranium nitrate, uranium acetate, molybdic acid, silicate of potash dry, sodium bromide, wulfenite, orthoclase andalucite, herdinite, pyromorphite, apatite, calcite, danburite, calcium carbonate, strontium acetate, sodium tartrate, barium sulphobenzoic, calcium iodide, true and artificial ammonium benzoic.

BOOKS ON RADIOGRAPHY.

In addition to books already mentioned the following will be found to contain some of the latest points of interest:—

Practical Radiography. By Snowden Ward. 1s. (Dawbarn & Ward). "The X Ray." By Dr. Morton. 3s. 6d. (Simpkin, Marshall & Co.). "Roentgen Rays and Phenomena of the Anode and Cathode." By E. P. Thompson and W. A. Anthony. 6s. (Spon).

Face-powders.

DR. WILLIAM MURRELL, lecturer on pharmacology and therapeutics at Westminster Hospital Medical School, has lately been looking after the community's health, in so far as the quality of some of its supplies of luxuries are concerned. Not long ago he discovered arsenic in cigarette-boxes and wrappers, which must have been disappointing, for it requires a keen imagination to trace any harm therefrom by smoking the cigarettes. Dr. Murrell's last subject is face-powders, and although it does not contain any facts which are strikingly new, they are interesting all the same. "A conference of the hairdressers of Paris" appears to have suggested the inquiry, in so far as the tonsorial artists said that face-powders "no longer consist of powdered rice." We question if they ever did, but here are Dr. Murrell's results on the composition of popular powders, as reported in the *British Medical Journal*, and determined by Dr. Wilson Hake, lecturer on practical chemistry at the Westminster Hospital:—

—	1.	2.	3.	4.	5.	6.	7.	8.
Starch	75	80	80	15	50	—	40	40
Precipitated chalk and carbonate of magnesium	15	—	—	—	—	—	—	10
French chalk	10	12	—	45	36	75	18	18
Zinc	—	7	20	40	14	25	40	30
Bismuth	—	1	—	—	—	—	1	1
Lead	—	—	—	—	—	—	1	1
	100	100	100	100	100	100	100	100

The powders were both non-proprietary and proprietary, and some of them were French. The starch in Nos. 1, 3, 4, and 5 was rice-starch, whilst Nos. 2, 7, and 8 contained maize-starch only. All specimens were carefully examined for mercury and arsenic, but none was found. Respecting the preparations themselves, Dr. Murrell adds the following notes:—

1. This was described as a rose-leaf powder. It had a faint odour of rose, but was certainly not made from rose-leaves.

2. This was sold as a rice-powder prepared with bismuth. It contained no rice-powder, and very little bismuth, certainly not more than 1 per cent.

3. This was a rice-powder free from bismuth. The analysis proved the correctness of the statement, but it also showed the presence of 20 per cent. of zinc, probably in the form of calamine.

4. This was sold without any guarantee of purity, which was perhaps fortunate, as it contained 40 per cent. of zinc.

5. This was described as "Poudre Rosée." It contained 36 per cent. of French chalk and 14 per cent. of carbonate of zinc.

6. This was sold as "Poudre de Riz de Java," but no rice-starch could be detected in it.

7 and 8. These were similar in composition, and were remarkable for containing three metallic ingredients—zinc, bismuth, and lead.

Another specimen examined gave very unexpected results, says Dr. Murrell, for it consisted solely of finely-powdered boracic acid. It was entirely and completely soluble in water, and corresponded in all respects to this substance when examined chemically, microscopically, and with the spectroscope.

He proceeds to comment upon the probable effects of these powders. "Carbonate of lead, if used to any extent, or for a prolonged period, might readily give rise to serious symptoms. Zinc salts are capable of producing a condition similar to chronic saturnism and zinc colic, analogous to lead colic. Preparations containing from 25 to 40 per cent.

of the oxide or carbonate can hardly be regarded as desirable additions to the toilet-table. Preparations containing bismuth are apt to turn black when brought in contact with sulphuretted hydrogen, so that ladies who employ cosmetics containing the substance find it desirable not to frequent mineral springs which evolve this gas. . . . Boracic acid is undoubtedly a most undesirable substance to use as a face-powder. When borax is used internally in the treatment of epilepsy, it produces large red desquamating patches on the forehead and at the angles of the mouth."

[These remarks of the eminent therapist strike us as being rather thin. He has forgotten that powders similar in composition to the above have been used for generations, and so commonly that dermatologists must have observed many cases of injury from them if the results, which he predicts, happen. As for boracic acid, which has been extensively used during the past decade, we would remind Dr. Murrell that it is not borax, and there is little connection between what borax rarely does when taken internally in epilepsy and what boric acid may do when applied to the skin of non-epileptic persons.—ED. C. & D.]

Dispensing Difficulties.

A collection of exceptional difficulties met with by C. & D. subscribers and their employés, and contributed in the Postcard Competition for February.

Arsenic Cigarettes.

This was the prescription:—

Potass. arsenite gr. xv.

Make into twenty cigarettes.

And this was my method, which gave satisfaction to the prescriber:—

Dissolve potass. arsenite gr. xv. in aq. destill. 3j. Saturate half a sheet (demy size) of white unsized paper, dry, and cut into twenty equal pieces. Roll into cigarette shape, and finish off with gummed-edge cigarette-papers.

This prescription had been sent to two well-known houses, but the cigarettes had not been satisfactory.—H. W. ROBERTS (Haverstock Hill).

Peruvian Balsam in Pessaries.

In making bougies, pessaries, and suppositories it is generally considered that the addition of wax is inadmissible, yet it was found, together with careful manipulation, the only means of producing a pessary of the following prescription, which was uniformly mixed and proved perfectly soluble:—

Bals. peru. gr. x.
Iodoform. gr. v.
Ol. theobrom. ad 3j.

Ft. pess. Mitte tales xij.

A. R. HOPPER, M.D., 63 Rodney Street, Liverpool.

I proceeded as follows:—I placed a large funnel in $\frac{1}{2}$ -pint measure and put the drachm-mould into the funnel and poured soap-liniment carefully over each division of the mould, and then turned it downwards to drain. Having balanced a small piece of waxed paper on each scale-pan, I weighed 120 gr. of balsam, removing the balsam from the paper. I replaced the paper, and on it weighed 60 gr. of iodoform. I added the latter to the balsam previously placed on a slab, and mixed the two ingredients. On larger scales I weighed 540 gr. of oil of theobroma and 60 gr. of white wax. Reducing the two to very fine shavings, I put them together in a small porcelain evaporating-dish, and cautiously applied the flame of a spirit-lamp to the bottom of the dish until the mixture was liquefied. Then with constant rubbing, I added the mixture to that on the slab. I placed this mixture in the dish, and kept it suspended in boiling water, stirring continuously till liquefied. Then I poured it when lukewarm into the mould. I allowed the pessaries to remain in the mould half an hour, after which I opened the mould. The pessaries came out well, and each presented a homogeneous brown-coloured appearance. In my previous attempts though the pessaries came out all right, they were specky, showing coagulation of the balsam, due to applying direct heat.—J. W. HORNSBY (Cheltenham).

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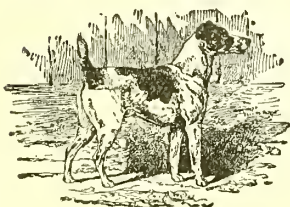
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No. 2 Pure CRUSHED LINSEED	14/ cwt.	No. 1 Finest Light Pure PRECIPITATED CHALK	25/ cwt.
BEST CLEANED LINSEED	15/ cwt.	No. 2 Pure PRECIPITATED CHALK	21/ cwt.
No. 1 Finest Pure FULLER'S EARTH (Light Colour)	15/ cwt.	"WHITE EARTH" Specially prepared for Toilet purposes.	18/ cwt.
No. 2 Pure FULLER'S EARTH	13/ cwt.	Finest Pure TOILET OATMEAL, SPECIAL	3/ lb.
Pure LIQUORICE	10/ lb.	Best Pure ARROWROOT	9/ lb. in tins.

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THE MINOR EXAMINATION.

A LEADING Glasgow pharmacist has lodged a complaint with the official organ of the Pharmaceutical Society regarding the stringency of the Minor examination in non-pharmaceutical matters. This complaint is opportune, and we think it right that we should give publicity to the fact

that the Pharmaceutical Council propose not only to increase the fee for the Minor, but to considerably extend the scope of the examination. The latter is not sequential to the increased fee, for the question of extending the examination—in chemistry and botany particularly—was under consideration months before the ten-guinea fee was thought of, and the extension is only kept back until the trouble about the ten-guinea fee is over. We do not approve of the proposed extension, because, amongst other things, it is introducing a bad principle into our pharmaceutical examination methods—viz., that of adapting the syllabus to the practice of the examiners. Several years ago, owing to the syllabus of the examination being meagre in details, an entirely new one was adopted, which states fully the lines upon which candidates are examined. At the same time the practical examination in chemistry was extended to three hours, and the dispensing and practical pharmacy work similarly. This was a success until the professorial examiners were introduced, when the chemistry examination began to run in grooves which were individualistic rather than pharmaceutical, and on various occasions we have protested against the manner in which the syllabus was interpreted by the examiners. Thus volumetric work has been given which was distinctly beyond the letter of the syllabus and the intentions of the Council, and non-medicinal insoluble salts have so frequently been the simple substances given for analysis that none but those specially trained in these directions could hope to satisfy the examiners. Moreover, the examiners appear to forget sometimes the special requirements of pharmacy, which are that registered chemists and druggists shall be familiar with the chemicals which are used in medicine. It is unfortunate that this subject is controlled by non-pharmaceutical men. The syllabus in chemistry is now to be made more comprehensive; it will, in fact, meet the criticisms which we formerly made. Candidates will need to be expert in volumetric analysis generally, and a knowledge of practical chemistry is to be required of them such as was demanded of Major students a decade since. The botany examination is to be made to include some acquaintance with systematic botany, and a more intimate and practical knowledge of histology than is at present provided for. At the same time, the recognition of dried medicinal plants is to be dropped—which seems to us an insane proceeding. The other subjects will remain practically the same as at present. The Major examination will also be altered, but only in the direction of simplification; and no attempt is to be made to raise it concurrently with the Minor, so that much of its distinction will be lost.

It will be understood that these proposals have yet to receive the sanction of the Pharmaceutical Council, and it by no means follows that because they are proposed they will be adopted. We hope the Council will consider the matter in their experience as retail chemists rather than in that strictly official spirit which is so prone to submit to official proposals, for the new scheme will have a far-reaching effect. It has to be remembered, first, that the present Minor examination is a much stiffer one than the Major was in 1868, when the Legislature deliberately accepted "the examination for assistants" (*i.e.*, the Minor of that day) as sufficient for registration; second, that the Privy Council visitors have expressed themselves as satisfied that the present examination-standard is a fair and sufficient one; and, third, that the extremely large percentage of failures is opposed to any extension of the examination.

We have repeatedly stated that preparation in the six Minor subjects is a great strain upon students; in no other professional examination are candidates required to show proficiency in so many subjects at one time, and it is largely

owing to this excessive pressure—this difficulty of becoming theoretically and practically proficient in six scientific and technical subjects at one time—that so many Minor candidates break down.* We believe that the Pharmaceutical Council will do a bad service to pharmacy and to the Society which they represent if they extend the examination before they obtain powers to divide it into parts, as was contemplated in the 1884 Pharmacy Bill. It is unnecessary to speculate upon the ultimate effect of making the Minor examination super-scientific, but we submit that the increase of the fee to ten guineas and the proposed increased stringency of the examination will so seriously reduce the rate of registration that qualified assistants will be harder to get than ever, and the public service will be jeopardised.

COMPANY PHARMACY IN IRELAND.

AN interesting controversy has sprung up in reference to the amalgamation of several of the leading Dublin pharmacies into a limited company. Mr. McWalter opened the attack last week, and other Irish chemists now support and repel his objections while Mr. Hayes replies effectively to Mr. McWalter's allegations of inconsistency. Mr. Hayes and his associates have clearly aimed to keep within the spirit as well as the letter of the Pharmacy Act, and, except from a purely sentimental point of view, we find it somewhat difficult to appreciate the indignation of our correspondents. No one could have had the smallest ground for objection if Mr. Hayes, Mr. Conyngham, and Mr. Robinson had entered into an ordinary partnership; nor could there have been any reason for complaint if the partners had chosen to borrow 30,000*l.* on the security of their property from one or more outside individuals. This is practically what has been done, though, in order to simplify the arrangement, advantage has been taken of the Companies Act. Mr. McWalter points to the remote, though no doubt possible, contingency of the debenture-holders taking possession of the property and running the businesses by themselves. Such a possibility could be, of course, provided against by the articles of association, though we do not know that any such precaution has been taken. But then, in the existing state of the law, anybody may sell his business to a company of unqualified persons, without taking the roundabout course of gradually transferring it to one *via* debentures. The apprentice question is on a somewhat different basis. Mr. Hayes states that means have been taken to secure to their apprentices the unquestioned right to offer themselves for examination. We cannot perceive that there need be any difficulty in doing this. Youths will be apprenticed, we presume, to individual directors, not to the company. The company, it must always be remembered, is a separate entity, and cannot be qualified. In the great contest between the Pharmaceutical Society of Great Britain and the London and Provincial Supply Association (Limited) the counsel for the defendants had a long struggle before he could get the Judges to perceive that point. He contended that the Pharmacy Act dealt only with persons, and never thought of corporations at all; and he said if his opponents were right the Apothecaries' Society could not sell a poison. But it was replied that the Apothecaries' Society consists of qualified persons only. That, Mr. Wills rejoined, made not an atom of difference. The company was not, and never could

* We may note here the examination-conditions for the M.R.C.S.Eng. and L.R.C.P.L. There are thirteen subjects: in the *first* examination three, of which two may be passed and one deferred; *second*, two subjects, which may be passed singly or together; *third*, the remainder of the subjects divided into three parts: Part I., five subjects (which need not be passed at one time); Part II., two subjects; and part III., one subject.

be, qualified, no matter what its constituents were. This was the argument that prevailed, and it would prevail again if the question of the apprenticeship of a youth to a company consisting of qualified persons only were to be raised.

THE CHEMICAL SCHEDULE OF THE U.S. TARIFF BILL.

THE debate in the American House of Representatives on the chemical schedule of the American Tariff Bill, which took place on April 2, is instructive reading. All the parties interested in clapping on duties, or in keeping goods on the free list, had been hard at work, and the result was seen in the amount of chemical information with which numbers of Congressmen, well primed to their task by lobbyists, favoured the assembly. The first attempt at amending the Bill was made by Mr. McMillin, a Democrat, who tried in vain to strike out the $\frac{1}{2}$ 25-per-cent. duty on unenumerated acids. He pointed out that lactic, gallic, and salicylic acids had already been made dutiable. His reason was that the Bill was already likely to produce much more revenue than was needed, and that the extra money estimated to accrue from these acid-duties was not wanted. Mr. Corliss, of Michigan, who wanted to raise the duty on carbonate of ammonia, was more successful. He obtained an advance of $\frac{1}{4}$ c. per lb., the duty being fixed at $1\frac{1}{2}$ c. which fully equals the old 20 per cent. *ad valorem* tax. Emboldened by this success Mr. Corliss proposed to raise the sal-ammoniac duty from $\frac{3}{4}$ c. to 2c. per lb., on the ground that the States at present import 5,000,000 lbs. of that article a year. One of Mr. Corliss's constituents, it seems, is anxious to start the manufacture, but he won't begin it unless the "infant industry" (at present it would be better described as an embryo one) is suitably protected. Under the first McKinley Bill this long-suffering constituent set up the necessary plant, but then came the Wilson Tariff, and the expected "infant" became a miscarriage. Mr. McKinley's election has again placed the constituent in a position of interesting expectancy, but as the House of Representatives refused to listen to Mr. Corliss, another accident seems to be impending.

Mr. Payne made a proposal about the duty on tartar materials, which is expected to realise \$440,000 a year. In the first Bill the duty appears to have been fixed regardless of the content of bitartrate of potash in the argols or wine-lees, but on Mr. Payne's motion it was decided to make such goods containing less than 40 per cent. bitartrate dutiable at 1c. per lb., and to establish a graduated scale running up to 5c. per lb. for argol testing over 90 per cent. Texas is a great cattle-raising State, and uses large quantities of coal-tar products for disinfecting and vermin-killing purposes. At the suggestion of Mr. Slayden, a Texan representative, therefore, coal-tar disinfectants were taken out of the paragraph relating to duties on coal-tar products, and restored to the free list. The heavy, and, in fact, almost prohibitive duties on collodion were maintained, because celluloid goods, in which collodion is chiefly used, are an American invention, and the trade has suffered much from foreign competition. In the 1894 tariff the duty was reduced from 50c. to 40c. per lb. on crude collodion and from 60c. to 50c. on collodion in sheets. Since then the imports of collodion have gone up from \$40,000 to over \$330,000 worth a year. The collodion and celluloid makers of New Jersey and Massachusetts are angry at this, and, having helped to put in Mr. McKinley, naturally expect their reward. They have it now, for collodion is made dutiable at 75c. per lb., plus 30 per cent. *ad val.* The sulphuric-ether duty was increased from 25c. to 40c. per lb.

Mr. Bromwell, who comes from Cincinnati, proposed to

increase the duty on crude glycerine from 1c. to 2c. and that on refined glycerine from 2c. to 4c. per lb., and in so doing he contrived to get in a flaming advertisement for "my constituents, Proctor & Gamble, the Proctor & Gamble Works, the manufacturers of the famous ivory soap, probably the largest soap-manufactory in the United States." It is the famous ivory-soap people who want the glycerine duty raised, for they make it largely, they pay their 2,000 hands "American wages" and a share in the "surplus" profits, and they are very wroth at the fact that since the $1\frac{1}{2}$ c. duty of the old McKinley Act was reduced to 1c. the importation of glycerine has increased from \$764,565 to \$1,431,578 worth. The famous firm of Proctor & Gamble, it seems, buy \$40,000 worth of essential oils every year. They have to pay an increased duty on these, and they want to take it out of glycerine; but a Congressman from Virginia objected to the proposal. Virginia grows tobacco; the tobacco-makers are among the chief users of glycerine, and if the glycerine-duty were to be raised the tobacco-makers would want some countervailing concession. Besides, soap-making was notoriously one of the most profitable industries in the State. Had anyone ever heard of a soap-factory failing? No one had. That settled the matter. The amendment raising the glycerine-duty was rejected. As one member said (and he could not have spoken words more condemnatory of the whole Bill), "When you disturb one of the underlying propositions of this Bill you must follow out the ramifications. Raise the duty 100 per cent. upon glycerine, and you must follow it through all its uses, and change the schedules in every direction. There is a single article in this Tariff Bill which, if modified, would require a change in the schedules of at least fifty articles."

An amendment placing gum chicle—from which the American popular favourite chewing-gum is made—on the free-list was rejected, and the gum remains dutiable to the extent of 10c. per lb., which is equal to about 50 per cent. *ad valorem*. As all the gum chicle comes from Mexico, an active speculation in the drug set in as soon as the Bill left the House of Representatives with the duty intact. It is expected that the American Treasury will obtain about \$360,000 a year from the chicle-duty, and that the retail price of the chewing-gum, which is fixed "by custom" at 5c. for a packet containing five strips, will go up by over one-half, a calamity that will do more to bring home the evils of McKinleyism to the rising generation of Americans than all the Democratic orations pronounced in Congress.

One of the queerest incidents of the debate arose over a coal-tar dye called naphthazarin black. The article so called is the property of a large German firm, but it is said to be chemically identical with several other coal-tar blacks imported under other names. All these last have been heavily taxed in the past, and will be still more so in future, but for some occult reason the German makers of naphthazarin black succeeded in getting that article specially inserted on the free-list, and have therefore been able to sell it at a great advantage over competitors who make the same dye, but do not own that name. When the present Bill was framed this anomaly was redressed, but when it left the House of Representatives "naphthazarin black" had mysteriously returned to the free-list, and there it will stand, unless knocked out by the Senate, in splendid isolation among coal-tar dyes.

A PHARMACISTS' PHARMACY.

We mentioned lately that Messrs. Merck & Co., of New York, a branch of the great Darmstadt factory, had established a retail pharmacy in New York on somewhat new lines. They

describe it themselves as "an institution of national scope destined to be a markstone in the development and advancement of American Pharmacy."

This is appreciative, to use the mildest expression, and we are not sure that the lengthy circular "which has been sent to every pharmacist and physician in the United States" altogether justifies the claim. It seems to us that Merck & Co. as a wholesale firm might have done all the useful things that the Merck Pharmacy proposes to do for the advancement of American pharmacy without competing directly with the men who are urgently implored to regard the new departure as a manifestation of fraternal emotions.

"The Merck Pharmacy," we are told, "concentrates all the resources of a scientifically modern and in every way complete plant of apparatus, of an unparalleled line of stock, and of a carefully-selected and ample staff, toward the sole purpose of providing the best possible service for the sick under medical orders, and of helping other pharmacies to do likewise."

The establishment is provided with pharmaceutical, analytical, microscopical, and bacteriological laboratories of the most complete character; the stock includes all the proper accessories to pharmacy, such as surgical, sanitary, and sick-room appliances, and all the newest and rarest pharmaceutical products of every brand on the market. They will supply any of these in the smallest quantity, or they will prepare prescriptions containing the articles, and will allow pharmacists a most liberal discount; while on any perplexing question or difficulty they offer to all pharmacists free information and advice.

They invite anyone interested to come and see them. They have no secrets; they will show any of their appliances and arrangements through every nook and corner; and will cheerfully answer all their questions. Some of their devices they think should prove worthy of the study of colleagues, and they believe that their pharmacy is equipped and conducted in a style not equalled on our globe.

They have none of the usual and popular side lines; no beverage-fountain, no cigars, confectionery, perfumery, or toilet goods. They will in no wise lend aid to the practice of self-medication, nor furnish, except on professional demand, any of the so-called "patents" or secret proprietary medicines. They do not seek to extract profits from colleagues; but they aim "to loyally serve and advance the common cause of pharmaceutical development and growth in our country."

The circular, which is a very clever one, is signed by Wm. C. Alpers, who appears to be at the head of this enterprise; and for the benefit of those old world chemists who cannot conveniently pay a personal visit to this philanthropic institution we have asked our New York correspondent to give Mr. Alpers a call and let us have some share in the benefit which that gentleman so liberally offers.

FAILURES IN ARITHMETIC.

Mr. Park, of Plymouth, is reported to have told the associated chemists of the Three Towns that the annual cost of the *Pharmaceutical Journal* to the subscribers to the Society came out at 4s. 4d. per head. Such a statement would certainly have ploughed Mr. Park if he had been a candidate for the Preliminary. The total cost of the *Pharmaceutical Journal* to the Society in 1895, after deducting receipts for advertisements and sales, was 3,598s.; the total number of subscribers to the Society according to the last return was 5,671. It is not possible to bring out from these figures any other result than 12s. 8d. per annum as the cost of the *Journal* to each subscriber. If the 1896 figures are taken some different result may be obtained. We do not yet know what those figures are. Dr.

Symes says the result comes out at 8s. per subscriber, so that on that basis Mr. Park must be wilfully wrong. Dr. Paul said at Nottingham that the 1895 figures showed a cost of not more than 7s. to each subscriber. This is the only detail of the by-law discussion in which our adversaries have ventured on any figures whatever. Are we to assume that they really cannot do the sum, or must we credit their arithmetic at the expense of their candour?

Mr. Gascoyne's letter which appears in our correspondence columns this week deals very effectively with the paltry attempts which have been made to confuse the issue. Will not some of these gentlemen of the Pharmaceutical Society who have boasted so loudly that they, and they alone, have borne all the expense of protecting the trade respond to his charge that they have not even paid with their own money for the privileges and advantages which they have carefully kept to themselves?

CHANGE FOR SIXPENCE.

The sociable spirits of the Chemists' Assistants' Association have been particularly heavy on dancing this season, with the result that they are to move at the annual meeting on May 6 "to substitute the words 'annual ball' for that of 'conversazione' in Rule 6." During the past few years the conversazione has resolved itself into a dance.

THE NEW B.P.

Good progress is being made in the production of the new British Pharmacopœia, and there is every reason to believe that it will be ready for presentation to the General Medical Council at the autumn meeting, if not before. The innovations are numerous, as might be expected; but the various committees which have been working upon it have been actuated by conservative motives rather than a hot-headed desire to reform all round, and their work is likely to meet with acceptance, although many critics may be disappointed to find their special views unexpressed in the volume.

A GOOD VACANCY.

The death of Professor E. S. Bastin, of Philadelphia recalls the fact that the position which he took on John M. Maisch's death was offered to a well-known English pharmacognosist. It is worth not far short of 1000l. a year, and rumour has it that the vacancy will be difficult to fill. The United States, like the United Kingdom, has few good lecturers who can handle botany and materia medica with equal facility, and it is necessary that the man appointed should be proficient in both the subjects.

CORNER FOR STUDENTS.

The names given in our issue of April 17 of the first ten competitors in our analytical tournament were in a few instances incorrect, owing to the confusion of the *noms de plume*. This list, as corrected, stands as follows:—

	Marks		Marks
W. G. Stratton (Acetate)	198	Tyers	181
E. Ockenden	195	Phœophycin	180
O. V. Blackburn (V. d. burke)	184	W. J. Lacey	179
A. E. King	184	Sepia	177
C. J. Packham	181	Acetylene or C ₂ H ₂	176

Each competitor should adopt one *nom de plume* (or his own name), and adhere to it throughout the competition.

THE DEWAR-RAMSAY AFFAIR.

Mr. Wanklyn is the last one to enter the arena. He has a flesh-pointed lance, which is that the ex-President did not declare the election according to by-law. This is what Mr. Wanklyn says in the *Pall Mall Gazette*:—

Mr. Harcourt was bound to announce to the meeting from the chair the names reported to him by the scrutators. Now, Mr. Harcourt did not announce the names reported to him, but made a trivial remark which can in no wise take the place of the very solemn announcement of names prescribed by the by-laws; and

there is ample warranty for the declaration of Mr. Cassal—a Fellow of the Society—that the election was null and void. The point which it concerns the public to appreciate is this:—The Chemical Society has, by a majority of its votes, voted a certain one of its Fellows into the presidency, and an official clique is ignoring its choice.

What Mr. Wanklyn means is that Mr. Harcourt should have read the names of those elected: “announce” is the by-law word. Perhaps “write on the blackboard” would have met the case as well; anyway, here is another nice little point for the Council to settle. By the way, Professor Dewar was a pupil of Mr. Wanklyn’s when the latter was assistant to the professor of chemistry at the Edinburgh University.

OFF-LICENCES.

At the recent dinner of the Off-licences Association the Chairman in his speech dropped a significant hint, which chemists, as holders of licences for the sale of wines which are not sufficiently medicated to make them medicine, have an interest in. The hint is contained in the following passage:—]

As the law now stands magistrates have no discretionary power in the matter of granting a certificate for the sale by retail of spirits [or wines] in bottle, and this want of power has always been, and is daily becoming still more, a very sore point indeed with these amateur law-givers. They are now aiming at having the granting of these off-licences left to their discretion in the same way that the retail off-beer licence is. We know what that would mean were they successful. It would simply mean making a close corporation of the wine and spirit trade—the off-licence trade would become a tied trade.]

The effect of the aspirations of magistrates has recently been seen when they have been asked by chemists for the formal authority for licences, but their remarks are not likely to have much influence with legislators, who in this matter will be guided by Somerset House as much as by public opinion.

PHARMACOPŒIA REVISION.

We are indebted to Dr. Charles Rice, of New York, for a copy of the “Digest of Criticisms on the U.S.P.,” prepared for the revision committee by Mr. Hans M. Wilder, of Philadelphia. Although the digest occupies only 183 pages, it is a marvellous concentration of the pharmaceutical literature of 1890–96. No one can read the digest without appreciating to the full the extraordinary amount of work required in revising a pharmacopœia. We notice, for example, that during the past six years no fewer than 300 circulars have been sent to the members of the committee; and most of these dealt with researches upon specific points affecting one or more factors adopted in the Pharmacopœia. Mr. Wilder’s “digest” is the prototype of the annual reports which have been issued to the General Medical Council regarding the British Pharmacopœia, but in this case the scope of the inquiry is much more extensive than Dr. Atfield has attempted. Mr. Wilder brings together from nearly fifty journals of chemistry and pharmacy, facts which are likely to influence the committee in their revision of pharmacopœial standards. The effect of the wider view of the matter is to place the Pharmacopœia, so far as its chemistry at all events is concerned, upon a strictly non-professional basis. By this we mean that in the United Kingdom the direct criticisms of the Pharmacopœia are only reported upon, while such criticisms and facts ascertained by non-pharmaceutical chemists are in the United States considered together. We observe that for the first time in its history, the U.S. Pharmacopœia committee of revision has a member resident in England—viz., Dr. Fredk. B. Power, the director of the Wellcome Research Laboratories. The digest is printed for private circulation only, but we understand that a limited number of copies are available for distribution to persons capable of making proper use of them, provided that they pay the postage—about 6s.

Recent Literature.

BY A BOOK-TASTER.

I very, very rarely make presents of my books. If people are inclined to learn from them, I say to them as a physician would, “Pay me my fee—you will not obey me if I give you advice for nothing.”

SO good John Ruskin wrote to the vicar of Broughton-in-Furness, more than two decades since, during that memorable correspondence of which the literary world has had a taste in “Letters to the Clergy,” printed by Mr. Malleson in 1879, and afterwards printed in other forms. I quote the above passage from the second of the letters—altogether Mr. Ruskin wrote thirty-eight to the vicar—because it is such a good thing, and I am able to do this because Mr. Thomas J. Wise (of H. Rubecq’s) has favoured me with a copy of the whole of the letters, which he has recently printed for private circulation. Book-lovers amongst *C. & D.* readers will recollect that Mr. Wise is the owner of the Ashley Library, one of the most notable private collections of first editions and modern MSS. in London. The originals of the thirty-eight letters here reprinted are in his possession. I may say (if the editor will allow me) that John Ruskin unfolds in the letters his views on the Lord’s Prayer; but, apart from that, they are full of inspiration and suggestion. I must compliment Mr. Wise on the manner in which he produces his books. This one has margins as ample as the text; Whatman hand-made paper is used in the book, the boards are chocolate cloth, and there are not more than thirty copies of it in existence. So anyone who wishes to follow up this note must go to the British Museum library to consult the volume.

* * * *

Being of a pharmaceutic mind I have read pharmaceutic meanings into some of the passages in the letters. Thus there is in a p.s. to the letter already quoted from which makes me think at once of the *R* in prescriptions. Says Ruskin:—

“There is not an ornament on your tongs—poker—or railway-carriage which is not the effect of belief in Jupiter, and the birth of Athena from his head.”

What decadence to think that the downstroke in *R* is the poker and the curved back the half of the tongs!

* * * *

I have recently been reading Brannt’s “Metallic Alloys,” the new edition published in this country by Sampson Low, Marston & Co. (Limited), which is enlarged considerably, and is now uniform with the author’s other works on “Fats and Oils,” “Soap and Candles,” &c. What I like about the “Metallic Alloys” is that it appeals to me as a pharmacist, and there are comparatively few books on this subject which give the sort of information that is often asked at the counter; but this one of Mr. Brannt’s seldom fails me, as I can testify from actual experience.

* * * *

Mr. Hermann Woolley, of Manchester, has an interesting paper on an ascent of Mishirgi-Tan and Ailama, Caucasus, in the *Alpine Journal* for February, accompanied by a Tartar guide, who stipulated that Mr. Woolley should show the way. He made the ascent in 1889, and the present description of it was read to the Alpine Club last December.

* * * *

M. Reber, “ex-pharmacien,” of Geneva, has brought to a close his “Gallery of Prominent Contemporary Pharmacists.” On various occasions this work has been referred to in the *C. & D.* It consists of a series of biographies, in French or German, illustrated with excellent portraits of the persons described. The “Gallery” is a useful work, but, as the articles appear in all cases to be autobiographical, the letter-press can scarcely be looked upon as entirely impartial. But the main object of the editor—to collect in a single volume an account of the best pharmacists and the best men of science who have sprung from the ranks of pharmacy in our time—has been attained. Naturally, some of the men to whom M. Reber applied have failed to respond, but the collection brought together into this volume is more complete than any other we know of. A portrait and biographical sketch of the editor fitly concludes the work.

Analysis of Oil of Lemon.

By A. SOLDAINI AND E. BERTÉ.

IN our previous paper (*C. & D.*, January 2, page 25) we dealt with the optical properties of oil of lemon, showing how the distillate is affected by the presence of turpentine and orange oils, and especially pointed out that when oil of lemon is pure the distillation residue is always lower in rotation than the oil in the first instance, the contrary being the case when turpentine and orange oils, singly or together, have been added. We regret that we reported on distillates of small quantities only, because some figures published by Schimmel (*Berichte*, October, 1896, page 31) indicate a discrepancy between their results and ours, which is apparent and not real, it arising solely from the fact that each of us distilled proportions which were different. We may also point out that the factor varies with the season. Thus, with oil of 1896-7 pressing a distillate of one-half gave a higher rotation than the oil direct; but with 1894-5 oil one-third gave this higher factor, the differences in the latter case varying from $0^{\circ}30'$ to $2^{\circ}30'$. This circumstance caused us to go deeper into the matter, and the present communication contains the results of a series of experiments which we have just completed.

Our object was to ascertain the rotation of the different fractions obtained from distillation of a pure oil and of the same oil with the addition of oil of turpentine. The pure oil employed was obtained from Messrs. Santi de Pasquale & Figli, and the results are subjoined:—

Distillation of 50 c.c. of Oil under Reduced Pressure.

Direct rotation of the oil	.. ..	+ $61^{\circ} 40'$
Rotation of the first fraction of the distillate (10 c.c.)	.. ..	+ $60^{\circ} 30'$
.. .. second .. ..	.. ..	+ $64^{\circ} 15'$
.. .. residue of the distillate (30 c.c.)	.. ..	+ $61^{\circ} 40'$

In this case it is seen that the distillate when still in smaller proportion (20 c.c.) than half the volume of the oil already gives a higher rotation than the direct one. To further investigate the matter we again distilled 50 c.c. of oil under pressure of 110-120 mm., collecting 10 c.c. fractions. The results of the polarimetric determinations at 16° C. are subjoined. These are for $[a]_D$:—

Direct rotation	.. ..	+ $61^{\circ} 20'$
+ $60^{\circ} 30'$ { Rotation of the first fraction distilled	.. ..	+ $58^{\circ} 30'$
.. .. second .. ..	.. ..	+ $62^{\circ} 40'$
.. .. third .. ..	.. ..	+ $66^{\circ} 18'$
+ $61^{\circ} 47'$ { fourth .. ..	.. ..	+ $68^{\circ} 22'$
.. .. residue .. ..	.. ..	+ $50^{\circ} 40'$

To the same oil 2 per cent. by volume of oil of turpentine was added, with the following results:—

Direct rotation	.. ..	+ $59^{\circ} 43'$
57° { First fraction .. ..	.. ..	+ 55°
.. .. Second fraction .. ..	.. ..	+ 59°
.. .. Third fraction .. ..	.. ..	+ 64°
61° 27' { Fourth fraction .. ..	.. ..	+ 69°
.. .. Residue .. ..	.. ..	+ $50^{\circ} 40'$

With 5 per cent. of oil of turpentine the difference was even more marked, the direct rotation of the pure oil being + $61^{\circ}20'$, of its distillate + $61^{\circ}12'$, and of the mixture + $56^{\circ} + 16'$, and of its distillate + $53^{\circ}12'$. These results were corroborated by examination of a pure oil from a different district. The experiments were repeated with like results, the figures of which it is not necessary to quote, except in the case of the following experiment under reduced pressure (20 mm.) on a water-bath:—

Temp. + 13° C.	Pure Oil	Oil with 2 per cent. Turpentine
Direct rotation	+ $63^{\circ} 20'$	+ $61^{\circ} 20'$
Rotation of the distillate	+ 64°	+ $59^{\circ} 04'$
Rotation of the residue	+ $61^{\circ} 16'$	+ $63^{\circ} 12'$

From the above we infer that a much-reduced pressure has some influence on the results, especially when turpentine is present. As a confirmation of the accuracy of our method, and to show the way we derive the conclusions as to the nature of the adulterant used, we give the details of some experiments made on samples especially adulterated. The

distillation on all the following experiments was carried under reduced pressure:—

Sample No. 1.—Made of pure lemon oil, 80 per cent.; oil of turpentine, 5 per cent.; oil of orange, 15 per cent. On examination we obtained—

Direct rotation	.. ..	+ $62^{\circ} 10'$
Rotation of the distillate	.. ..	+ 55°
Rotation of the residue	.. ..	+ 65°
Citral 5.8 per cent.		

The presence of oil of orange was shown by a qualitative reaction.

Conclusion.—The oil contains about 35 per cent. of foreign matter (oil of orange and turpentine)—viz., 25 per cent. orange and 10 per cent. turpentine.

Sample No. 2.—Made of pure lemon oil, 70 per cent.; oil of turpentine, 10 per cent.; oil of orange, 20 per cent.

On examination we obtained—

Direct rotation	.. ..	+ $59^{\circ} 20'$
Rotation of the distillate	.. ..	+ $52^{\circ} 30'$
Rotation of the residue	.. ..	+ $63^{\circ} 30'$
Citral 6.2 per cent.		

The presence of oil of orange was ascertained as in sample No. 1.

Conclusion.—Presence of foreign matter in the proportion of 20 per cent. orange and 10 per cent. turpentine. Let nobody stare at the great difference between the per cents. calculated and those found in sample No. 1, nor wonder at the close precision of result in sample No. 2, for, as is easily understood, they are both natural consequences of a method that cannot have fixed points to start from, citral and rotation varying too much in their extremes.

Sample No. 3.—Made of pure lemon oil, 40 per cent.; oil of turpentine, 5 per cent.; terpene of lemon oil, 55 per cent.

On examination we obtained—

Direct rotation	.. ..	+ $59^{\circ} 20'$
Rotation of the distillate	.. ..	+ $52^{\circ} 25'$
Rotation of the residue	.. ..	+ $64^{\circ} 30'$
Citral, 4 per cent.		

No oil of orange was found; the colour looked suspicious.

Conclusion.—The oil is artificially coloured, and is made up of 5 per cent. turpentine, 45 per cent. terpene of lemon oil, and 50 per cent. of pure lemon oil. The presence of the terpene of lemon oil was inferred from the absence of oil of orange, from the low percentage of citral, and from the high rotation of the residue of the distillation.

These results are a wonderful proof of the fact that, though the adulterants can be balanced to give a direct rotation equal to the pure oil, the distillation method serves to reveal the impurity. We think that, even if an exact method of estimating citral were available, instead of the approximate one, the results would be no more convincing than those obtained by the optical examination of the original oil and its distillates. The citral value is principally of use to those who wish to make the concentrated oil of lemon; it is not the sole odorous constituent of the oil, and it is too variable in quantity in pure oils to rely upon solely. Of course, when it is desired to approximatively ascertain the proportion of foreign matter, the estimation of citral must be made.

To sum up, oil of lemon may be declared as pure when the optical rotation of the distillate of half its volume is at least 0.30 higher than the residue of the distillation. If it is lower the presence of more than 2 per cent. turpentine is indicated. A residue showing a higher rotation than the original oil indicates the presence of oil of orange, or terpene of either lemon or orange, which indications are confirmed by the qualitative reaction as well as by the low percentage of citral (especially in the case of adulteration with terpene), which, co-ordinated with other tests, will tell in the great majority of cases the adulterant used.

With regard to the editorial remark made in your issue of January 2, 1897, about the adding of lemonene to oil of lemon seeming exactly on a footing with adding water to wine, we would say that the cited example cannot stand. Lemonene on being added to lemon oil carries with it its marked properties which partly compensate the diminution on the citral contents.

Laboratorio Chimico Municipale, Messina, March 16.

Novelties.

"VICTORIA VIOLETS"

is the name of a seasonable perfume which Messrs. Evans Gadd & Co., of Exeter, have just introduced. It can be had in bulk at 10s. 6d. per lb., or in 1-oz. bottles elegantly finished, to retail at 1s. 6d. and 2s. It is a nice perfume, and to aid its sale the makers supply scented handbills for counter-distribution.

NEW TABLOIDS.

MESSRS. BURROUGHS, WELLCOME & Co. have modified the formula for their red-gum tabloids, so that as now put on the market they have all the characteristics of a pleasant confection, but the therapeutic influence of red gum is fully retained. The tabloids have a pleasant taste, resembling *Pâté de Guimauve*, and we have found them to relieve huskiness and to clear the voice in a case of slight tonsillitis. The tabloids are put up in bottles of one hundred, and should be popular for the treatment of throat affections. The firm are also making $\frac{1}{4}$ -gr. tabloids of saxin, which are put up in tiny amber bottles. Each of these contains synthetic sugar equivalent in sweetening power to an ordinary lump of loaf sugar, "Saxin" being 600 times sweeter than sugar.

JUBILEE HANDBILLS.

MR. JAMES TOWNSEND, printer, Exeter, sends us specimens of handbills which he has produced in view of the Diamond Jubilee. They are illustrated, the designs being varied. One set is printed in gold on blue paper, and seem remarkably cheap at 15s. 6d. per 5,000, with the chemist's own wording; but the most effective bill, in our opinion, is No. 1, which has a good portrait of the Queen in half-tone, encircled by a wreath of oak and national flowers. It is printed in black. The blue-and-gold handbills can be obtained without the Jubilee references or illustrations.

NEW PALATINOIDS, &c.

FROM Messrs. Oppenheimer, Son & Co. (Limited) we have received the following:—

Thyrocol, the colloid matter of healthy sheep's thyroid glands, prepared according to the directions of Dr. Hutchison, of Edinburgh, who showed, in the early part of this year, that this colloid matter contains the active principles of the thyroid gland, and is free from ptomaines and other undesirable ingredients which may occur in the dried whole gland. *Thyrocol* is a brown powder, and is said to be of constant activity. It is put up in palatinoids.

Bi-palatinoids of Creosote and Soda-mint.—Dr. Morgan Dockrell, of Cavendish Square, W., has recommended these for fermentative dyspepsia. They allay the immediate discomfort, and check the fermentation. In this bi-palatinoid the creosote is isolated from the powder of soda-mint.

Cream of Malt with Cod-liver Oil and Chocolate.—The addition of chocolate to this well-known preparation is a temptation and snare to children, who, we find, take it eagerly. We need not go beyond that judgment, as children form the *clientèle* for whom the new preparation is designed.

"EMPIRE GOODS."

MESSRS. BURGE, WARREN & RIDGLEY, 11 Clerkenwell Green, E.C., who have been in the surgical-instrument and druggists'-sundries trade for some forty years, have, until recently, confined their business to the wholesale sundry houses. Now they have made complete arrangements to give chemists the opportunity of buying from them direct. Their catalogue is well arranged and worth asking for. The "Empire" brand of druggists' sundries is one of their specialties.

We have examined the "Empire" enema-syringe, which we find to be excellent value for the money—17s. per dozen net. This leaves a handsome profit to the chemist if sold at, say, 2s. 6d., although we have seen the same quality of enema marked at 4s. and 5s. each in some "cutting" shops. The firm stake their reputation on the quality of their enemas, and guarantee them for two years—a remark that applies to all their rubber goods. We illustrate (fig. 1) a children's rectum-syringe, which is another of the "Empire" class. This is fitted with an elastic-gum pipe, which, being flexible, is much better than the hard vulcanite one. Fig. 2 is a patent

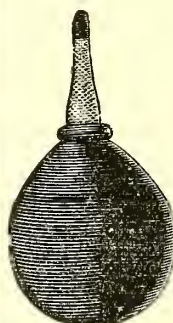


FIG. 1.

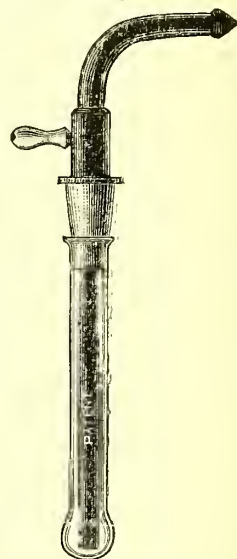
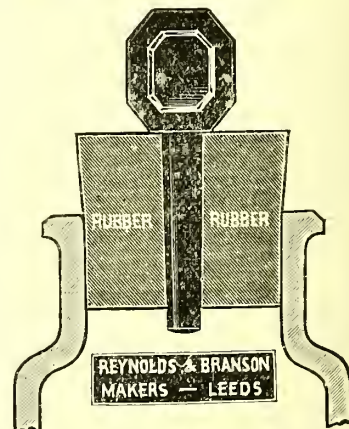


FIG. 2.

spray-producer, intended to carry in the pocket and for doctors' use. The medicament is placed in a bulb test-tube, as shown in the figure, and the vulcanite capillary-tube is fitted into it, when a fine and continuous spray is obtained with the double-ball bellows. The vulcanite tube acts equally well when fitted into a phial. The firm intend removing shortly to 91 and 92 Great Saffron Hill, E.C., where they have secured larger premises, which will enable them to turn out their goods with greater facility and despatch.

A NEW RUBBER CORK.

SOMETIMES indiarubber corks slip out of the necks of bottles because the pressure of the air is greater inside the bottle than outside, and the rubber being squeezed more than it likes takes the path of least resistance—outwards. Mr. H. J. Robson, M.R.C.S., Leeds, seems to have experienced the disagreeableness of this peculiarity by having his surgical bag spoilt with the contents of a bottle liberated by an erring stopper, so he has devised the improvement shown in the figure. It is simply



a perforated indiarubber stopper, and a glass or vulcanite plug is put in the hole after the stopper has been put into the bottle.

Business Changes.

MESSRS. JEFFERY & Co., Richmond Road, Barnsbury, have sold their business to Mr. Williams, late of Forest Hill, S.E.

The Yorkshire Pharmacy and King Street Drug-stores, St. Heliers, Jersey, have been acquired of Mr. F. A. Plint by Mr. Robert Ingles, lately of Todmorden.

MESSRS. G. & G. HALL, chemists and druggists, have purchased the business recently conducted by Messrs. W. E. Henderson & Co. (Limited) at 30 Montrose Terrace, Abbey Hill, Edinburgh.

MESSRS. JAS. A. GIBSON & Co., chemists and druggists, 8 Nicolson Street, and 19 South Clerk Street, Edinburgh, have purchased the business of Mr. Robert C. Cardno, 87 Lothian Road, who is leaving Edinburgh.

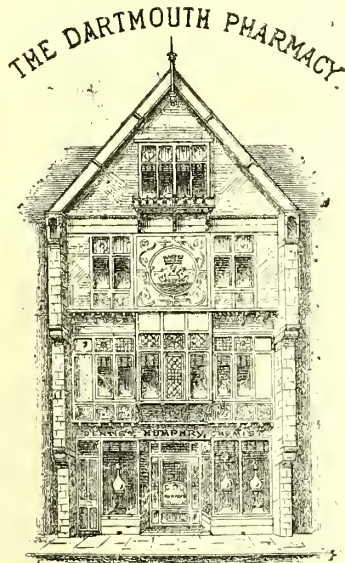
THE business carried on at Bengeworth, Evesham, by Messrs. J. Pumphrey & Son, has been acquired by Mr. Wilfrid Lean, M.P.S., late Redwood Research scholar of the Pharmaceutical Society, who was for five years with Messrs. J. Pumphrey & Son.

THE statement last week that Mr. C. F. R. Pars had sold his pharmacies at Stamford and Thrapston to Mr. G. A. Johnson was only partially correct. The Thrapston business was purchased from Mr. Pars last July by Mr. Joseph H. Payne, who is still the possessor of it.

THE chemist's and stationer's business formerly carried on by Mr. D. Macdonald Smith at 67 and 67A High Street, Linlithgow, has been transferred to Mrs. C. M. Spence, chemist, of 131, 133, and 135 High Street, Linlithgow, who will carry it on in all its departments as a branch.

MESSRS. INGRAM & ROYLE (LIMITED), importers and exporters of mineral-waters, 52 Farringdon Street, E.C., have, owing to the growth of their business, taken new and much larger premises, East Paul's Wharf, 26 Upper Thames Street, E.C., to which address all communications should be forwarded on and after Monday, April 26.

THE subjoined illustration represents the new pharmacy of Mr. H. Humphry, at 2 Fairfax Place, Dartmouth. The architecture is Elizabethan, and is a replica of that of one of



the old sixteenth-century houses of Dartmouth, of which a few still remain, and which are of great interest. The front of the house is half-timbered in pitch-pine and decorated with ornamental slated panels. The borrough arms are shown in sgraffito work, and the gable and the panels above the shop are in the same work. The ground floor is in recess, each succeeding floor standing out a little further over the road than the one immediately below it.

Trade Notes.

P.A.T.A. LIST.—The following articles have been added to the protected list during this month:—Eucalturp; Homococa soaps, Kaputine, Peacock's ovaline soaps and creams, and Vidace.

An advertisement of Day's Southern Drug Company in the *West Ham Guardian*, which has been sent to us, shows that the company is advertising all the protected articles at below the minimum prices. Day's Company says: "This is not done in order to induce the public to buy them, and we hope it will not have that effect. It is done in order to defy and checkmate the 'ring.'"

MR. THOMAS KEATING is distributing to all who stock Keating's powder a very beautiful enamelled showcard, framed in white and gold, which shows eight in a bed—four cherubs and four kittens. They are not at all crushed, and appear to have found life a bliss entirely through the good effects of Keating's. A facsimile of the showcard appears on another page in this issue. As there is likely to be a big demand for the card, prompt application for it should be made.

CHLOROFORM ANÆSTHESIA.—Writing in respect to our town traveller's note on his apparatus, Mr. C. W. Krohne says that he does not maintain that it is impossible to kill an animal by giving chloroform with the inhaler, but that an intelligent anaesthetist administering chloroform with it by Snow's method should not, with ordinary care and attention, be able to cause even the mildest evil effects. Mr. Krohne adds many particulars in support of this statement, but we consider the fact that no death has occurred when his apparatus has been used to cover all the proof which he can give anyone.

SOUVENIRS FOR THE JUBILEE.—Messrs. Shirley Brothers have exhibited a few samples of their special stock to our Town Traveller. The first article was the Jubilee puff-box, made of white metal decorated with photos of the Queen and all the heirs to the throne in succession. Another cheap line is round-shouldered tooth-powder boxes with artistic labels in various colours, the boxes when full selling at 6d. retail. For the babies there is also the Jubilee feeder. For the approaching summer the "Whitcross" fruit-drinks, put up in green cartons, are a good line. When six dozen are ordered an imitation lemon-tree, all a-blowin' and a-growin', is given away. Last year Mr. Shirley found some difficulty in coping with the demand for the drinks, no doubt their low price having something to do with it. The "Royal Sovereign" perfume and "Queen of Hearts" smelling-bottles are other articles which are sure to find a place on the counter during the Jubilee months.

NATIONAL ASSOCIATION OF MINERAL-WATER MANUFACTURERS.—The annual meeting of this Association was held at Rule's Hotel, Covent Garden, on Thursday. Mr. Richard Johnson, J.P., presided, and there were present, besides London members, representatives from all parts of the country. The President said a complete cordon of associations had been formed in England and Wales. Bristol being the last to complete the chain. Grants amounting to about 100% had been made to assist small associations in asserting their rights of property, and there was a gain of nearly 100% as compared with the profits of the previous year. A dividend of 20 per cent. on capital subscribed was declared. All the directors were re-elected with the exception of Mr. Cox and Mr. Simpson (Manchester and Yorkshire), who retired. Mr. Richard Johnson was re-elected President for the eighth successive year; Mr. E. S. Crick was elected Vice-President in the place of Mr. Simpson; and thanks were voted to all officers for services rendered. The President brought up an engrossed vellum of loyal congratulations to her Majesty the Queen on her Diamond Jubilee, and asked the meeting to sign it on behalf of the whole of the mineral-water manufacturers of Great Britain. This was done, and the Secretary (Mr. William Tooke) asked to forward the same to the Queen. The parchment was prepared with rollers and gold tassels, and enclosed in an elaborate scroll case. The meeting decided on two important prosecutions to restore large hoards of bottles to their rightful owners, and adjourned until October next.

Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

DARK-ROOMS

are fitted up in the following pharmacies:—

- Ayr, N.B.—Mr. William Burns, High Street.
 Banbury, Oxon.—Mr. J. R. Goodman.
 Bishopwearmouth—Mr. Alfred D. Purse, the Park Pharmacy, 15 Salem Street.
 Cambridge—Mr. C. S. Addison, 6 Market Place.
 Cheltenham—Mr. Arthur Hill, 98 High Street (adjoining Royal Hotel).
 Dover—Messrs. Hambrook & Son, 6 Stroud Street.
 Haubledon, Hants.—Mr. W. T. Gorfitt.
 Harwich—Mr. C. F. Bevan, Church Street.
 Highbridge—Mr. T. H. Chappelow, 3 and 4 Market Place.
 Ivybridge—Mr. F. Rutherford.
 Malvern—Mr. J. Need, Lygon Pharmacy.
 Mutley—Mr. J. Barge, the Belgrave Pharmacy.
 Plymouth—Mr. J. Barge, 68 Old Town Street.
 Stonehaven—Mr. James Cumming.
 Strathpeffer—Mr. T. Wellwood Maxwell, the Spa Pharmacy.
 Torquay—Mr. J. W. Cocks, 1 Madeira Place.
 Whitehaven—Mr. F. B. Bennett, 37 King Street.
 Notices of subscribers' dark-rooms, similar to above, are inserted free of charge if properly authenticated.

THE P.A.T.A. AND PHOTOGRAPHIC GOODS.

THE *Photographic Dealer* states that "already over one thousand photographic dealers have become members of the P.A.T.A." I understand that the bulk of these are chemists.

ANOTHER ANTI-CUTTING SCHEME.

FIFTEEN of the plate and sensitised-paper makers in this country have combined to keep up prices. They will not in future sell their plates, papers, or films to any who do not adhere strictly to certain rules, which are as follows:—

They shall be sold only

- (1) In original unopened packages.
- (2) *Retail*, not under manufacturers' published list prices.
- (3) To *Professional Photographers*, with not more than the following discounts:—

PLATES AND FILMS—(rollable films are excepted from these rules)

2l. worth per month	5 per cent.	} with 5 p.c. extra if a/c is paid on or before the last day of following month.
5l. " "	7½ per cent.	
10l. " "	10 per cent.	

PRINTING-OUT AND BROMIDE PAPER—

1 quire printing-out paper (or its equivalent value in cut sheets or bromide paper) and upwards—not more than 10 per cent.

(4) Carriage will be paid by the manufacturers on 5l. (net) worth of plates and papers, or on 4l. (net) worth of paper only, to dealers or to professionals on dealers' orders, and on all amounts within Carter, Paterson & Co.'s district.

(5) Dealers shall not allow more than the manufacturers' trade discount—i.e., no cash or counting-house discount shall be allowed by one dealer to another dealer, or to a shipper.

(6) Dealers' terms may be allowed to chemists and other similar traders, after careful inquiries, but no manufacturer or dealer shall allow more than the above terms to any photographer (whether he is also a dealer or not) without the consent of the manufacturers signing this agreement.

N.B.—These rules do not apply to goods sold to *bona-fide* dealers on dealers' terms.

The firms in the combine are:—Birmingham Photographic Company (Limited), Britannia Works Company (Limited), Cadett & Neall, Eastman Photographic Materials Company (Limited), Edwards, B. J., & Co., Elliott & Son, European Blair Camera Company (Limited), Imperial Dry-plate Company (Limited), Marion & Co., Mawson & Swan, Morgan & Kidd, Paget Prize-plate Company, Sandell Works Company (Limited), Thomas, R. W., & Co. (Limited), and Wellington & Ward. Uniform prices are also fixed for P.O.P. papers—viz., 1s. per packet, or 15s. per quire.

HE WILL GUESS AGAIN.—Professor: "What do you understand by elementary physics?" Overdosed Student: "Brimstone and treacle or salts and senna."

Trade Reports.

42 CANNON STREET, E.C., April 22.

THE Mincing Lane markets continue to wear what is called a holiday appearance, but there is a very steady undercurrent in trade, and prices are generally well maintained. This week hardly any public sales have been held, but next week's drug-auctions will be very heavy, though no full particulars are yet available. The war that has broken out in the East of Europe has so far caused no alterations in the market, but there is a slightly firmer tone for most kinds of Turkish produce, notably gum tragacanth, scammony-root, and opium. In the chemical market we have to report a firm price for cream of tartar. Carbolic acid is scarce, and tending higher. Foreign tartaric acid is also rather firmer. Borax unaltered. Bleaching-powder has been advanced to about 7l. 10s. on the spot. Sodas and potash salts generally unchanged. Soda crystals are very firm. Chlorate of potash is easier. Citric acid and glycerine are weak. The reduction in sulphonal appears to have silenced the outside makers for the present. Quinine is quiet, but firm; the low cocaine quotations have been withdrawn, and there is practically no price for this article at present. Turning to drugs, we find that beeswax and honey are very firm, and tending higher. In rhubarb there has been some trade at steady rates. Balsam copaiba is steady. Tolu very firm, and Peru fairly active. Good Spanish ergot has sold at steady prices. Belladonna and gentian-root very firm. Blood-root reported dearer from America. New crop gum mastich firmly held. Calumba-root has sold at steady prices. Opium and tragacanth fairly active. Lycopodium, insect-flowers, and scammony-root are reported somewhat dearer. Vanilla is scarce, especially in fine qualities. Gum acacia neglected for almost all varieties. Cod-liver oil is weak, but castor oil a shade steadier. Essential oils generally unchanged. HGH peppermint oil remains at low prices. Cajuput oil is tending upwards. Jalap has sold cheaply, and orris offers at low prices. Saffron is also easier, while menthol and liquid storax show a weak market. Camphor is practically unchanged. There have been heavy arrivals of cardamoms, which will be offered next week. In outside articles, shellac remains steady. Turmeric is still tending upwards. Persian galls are scarce, and tending dearer. Zanzibar cloves have been active, and close firm. Black and white peppers are steady. There have been large arrivals of quicksilver, and the market may go easier.

It is reported that a Mr. Fox, described as "the anti-slavery delegate in Zanzibar," is trying to persuade the Arabs to confine in the future the sale of cloves to a syndicate "to be formed by him."

A large factory for the distillation of essential oil from Russian aniseed has been established in the Government of Charkoff, in Russia. Up to the present Russia has produced only the seed, which was mainly exported to Germany for pharmaceutical and distilling purposes. The capacity of the new factory is about 1½ million lbs. of oil a year.

Some twelve years ago a small consignment of Japanese "cod-liver oil" was offered on the London market, but proved extremely difficult of sale. Since then samples of this oil have been shown at exhibitions, but the drug has hardly risen to the rank of a regular commercial article. Now, however, things seem likely to change, for a consignment of 150 cases has just been brought to Europe by the German steamer *Kriemhild*, and is at present in London. The oil is packed (not

very suitably, we think) in cases containing two 37½-lb. tins each. The tins bear the name of a well-known Japanese manufacturer and chemist; the oil is of a deep yellow colour and fishy odour, but we have had no time yet to examine it chemically.

The *Oil, Paint, and Drug Reporter* calls attention to the steady increase in the consumption of cubebs in the United States, chiefly for essential-oil manufacture. The figures for the past seven years (ending June 30), it says, are as follows:—

	1895-96	1894-95	1893-94	1892-93	1891-92	1890-91	1889-90
Lbs. ..	290,674	193,376	83,244	136,353	115,974	65,404	84,729
Value \$	16,229	12,414	8,512	27,762	42,616	46,530	85,483
Cost per lb. cents	5.6	6	10	20	37	71	100

In spite of this increase in consumption, our contemporary does not consider that there is any chance of a permanent advance in price. The stocks in Amsterdam and Singapore are large; London does not hold much, but New York has "ample for a long time." The shipments from Singapore show a falling off last year. They are given as follows:—

	1896	1895	1894	1893	1892
Lbs. ..	249,103	718,067	616,322	431,452	306,831

In certain continental price-lists "artificial glycerine, 30°R." has lately been offered at the parity of about 16s. 6d. per cwt., or about one-fourth of the price of best double-distilled 1-260 glycerine. This artificial glycerine is offered in three varieties, in all of which a solution of chloride of calcium forms the base; the first variety consisting of a solution of chloride of calcium and glucose, the second of a solution of the chlorides of calcium and magnesium, and the third being simply a chloride of calcium solution. As these compounds, like true glycerine, possess a strong hygroscopic action, they may find employment for certain technical purposes, but the name under which they are brought into trade is quite a misnomer.

Our Hamburg correspondent wires on Thursday-morning:—

Hamburg Telegram. "The drug-market is still very quiet, but *Refined, camphor* is firmly held at 2.95m. per kilo. *Opium* quiet; good druggists' at 18m. per kilo."

Our Bergen correspondent wires on Thursday afternoon that the Lofoten fishery is not yet closed entirely. The result of the fishing in Finnmarken so far has been very poor. The total catch of fish in all Norway for the season amounts to 45,252,000, against 35,073,000 at the corresponding time of last season. The output of medicinal cod-liver oil is 25,420 barrels, against 13,430 at the same time of last year. The market is dull and easier. Fine non-congealing oil can be bought to-day at 67s. per barrel, f.o.b.

Our Smyrna correspondent telegraphs on Thursday afternoon that the opium market is quite firm, the price for fair *Manufacturing* opium being equal to 8s. 4d. per lb., f.o.b. There are few sellers.

Our New York correspondent cabled on Thursday last (too late for publication in our issue of April 17) that the market for *Curaçao aloes* has gained much strength—ordinary quality is quoted at 3c. per lb., livery at 4c., and good bright at 5c. per lb. All varieties of *Copaiba* balsam are firm. *Wahoo bark* of root is

lower, and may be had at 14c. per lb. *Lobelia inflata* still advancing, 12c. per lb., being now the bottom quotation for loose herb. *Peppermint oil* is tending upwards. New crop *Mandrake-root* offers at 7½c. per lb., which is weaker. American *Refined spermaceti* 30c. per lb. Bleached *Beeswax* very strong, and rising, at from 27c. to 30c. per lb. Cabling on April 22 our correspondent states that *Tolu balsam* is extremely firm at 55½c. per lb. for good quality. *Podophyllum* is declining; *Soluble*, good yellow quality, offers at 2.50 per lb. *Golden seal root* is quite neglected, and offers at as low a figure as 27c. per lb. New crop *Jalap* is plentiful, and may be had at 9½c. per lb. New crop *Mandrake* is also offering freely, and declining in price. Mexican *Sarsaparilla* plentiful at 4¾c. per lb.

ACID (CARBOLIC) is very strong, and held for higher prices. There has been a rather large inquiry to-day for crystals, and we understand that two of the English makers are sold out until the end of the year, while a third only has a little to offer for delivery in the autumn. The price is still nominally 8d. to 8½d. per lb. for 39° to 40° C., and 7½d. for 34° to 35° C. for crystals, but it is doubtful if anything could be had at these figures now. *Crude carbolic acid* offers at 2s. 3½d. to 2s. 4d. for 60 per cent., and 2s. 8½d. to 2s. 9d. per gallon for 75 per cent.

ACID (CITRIC).—Quiet at 12½d. to 12¾d. per lb. for *English Concentrated juice* quiet at 11l. 15s. per pipe, f.o.b.

ACID (TARTARIC) is distinctly firmer. *English* still offers at 1s. 1d. per lb. for B.P. from the makers, but foreign is in demand at 12¼d. per lb., and some of the makers do not offer at all.

BALSAMS.—*Balsam tolu* is very firmly held, with prospects of a further advance. From New York, 2s. 6d. per lb. c.i.f. is quoted, and on the spot there appears to be very little offering, even at 3s. per lb. *Balsam Peru* is steady. Two parcels have arrived this week—one of 31, and one of 20 cases—but these are said to be destined for Hamburg and Bremen respectively. Probably 8s. per lb. would still buy on the spot. A parcel of certified genuine *Maranham copaiba* balsam has been sold at 2s. 3d. per lb.

BELLADONNA-ROOT is firmly held, and the demand remains fairly good. Ordinary quality offers at 38s. per cwt., c.i.f.

BLOOD-ROOT is reported much dearer from America, the quotation being equivalent to 1s. per lb., c.i.f. terms, while the supply is quite small.

CALUMBA.—A sale of fine picked and washed yellow root has been made to-day at 72s. 6d. per cwt. For fair yellow picked and washed 50s., and for ordinary washed 30s. per cwt. is asked, while for barely fair sorts 22s. per cwt. is quoted. The demand is fairly good.

CAMPHOR (CRUDE).—A sale of 100 piculs *Japan* camphor, April-May shipment, is reported at 100s. per cwt., c.i.f. This, if confirmed, shows a decline of about 2s. 6d. In the Japanese official trade-returns the exports of camphor from Japan in 1896 are declared at 16,177 piculs, against 223,839 piculs in 1895. *Formosa* gum offers at 97s. 6d. per cwt., c.i.f., in second-hand.

CARDAMOMS.—The arrivals have been very heavy. They consist of 266 packages by the *Strathtay*, 84 cases by the *Clan Macintyre*, and of 34 cases by the *India*, from Colombo. The exports from Ceylon during the past ten years have been as follows:—

	1896	1895	1894	1893	1892
Lbs. ..	452,595	374,635	306,317	428,210	372,510
Lbs. ..	1891	1890	1898	1888	1887
Lbs. ..	422,109	387,940	361,224	287,724	344,918

CEVADILLA-SEED.—Of this drug, which is one largely speculated in by a few Hamburg houses, there have lately been few arrivals, and the price has risen to something like 75s. to 80s. per cwt. There appears to be considerable stock in Hamburg, but much of this is said to cost the owners a good deal more than the present market value.

COCAINE.—There is practically no fixed quotation for this article to-day, and an advance seems imminent. The last nominal price of 8s. 6d. per oz. for *Hydrochlorate* is said to be out of proportion to the cost of the crude. *Merek's* brand is quoted nominally at 9s. 9d. per oz., but the agents for this firm do not want to sell.

CREAM OF TARTAR.—Firmly held at 81s. per cwt. for first white French crystals, and 83s. to 84s. per cwt. for powder.

CROTON-SEED remains scarce. Two small parcels, totalling seven bags, have come to hand from Colombo, and will probably be offered for sale next Thursday.

ERGOT OF RYE.—A sale of good sifted *Spanish* ergot is reported at 9d. per lb.

GALLS.—*Persian* galls remain very scarce. For good blue 50s. per cwt. has been paid, while green galls are scarce, and have realised from 43s. to 46s. per cwt.; white firmly held at 40s. to 42s. 6d. per cwt., according to quality.

GENTIAN.—Fine *French* root offers at 29s. per cwt., f.o.b.; powder at 28s. per cwt., f.o.b.

GLYCERINE.—Double-distilled glycerine is weak. One of the *German* manufacturers quotes 61s. for s.g. 1.260, but would perhaps shade that price 6d. or 1s. for quantities. From second hand, however, it would be possible to buy at slightly less money. *Price's* brand in 1-lb. bottles is quoted at 1s. 5d.; in 7-lb. bottles at 1s. 1d. per lb.

GUM ACACIA.—The market for *Soudan* gums is quite dull and no business worth speaking of is reported; the nominal prices still range from 50s. per cwt. for fair hard to 80s. per cwt. for fine pale soft quality, but it would probably be possible to buy considerably below these figures. Picked *Trieste* gum is in somewhat small supply, but there is scarcely any demand; from 5l. to 10l. per cwt. is asked according to quality. So-called insoluble *Persian* gum is firmly held with a moderate stock. For red to fine pale picked the quotation runs from 18s. to 24s.; sorts 14s. to 18s. per cwt. The market for *East Indian* kinds remains quiet, with small sale of medium *Ghatti* at 24s. and fair reddish *Karachi* at 52s. 6d. per cwt. Fair picked, partly brownish mixed *Trieste* grain offers at 6l. 17s. 6d. per cwt. It has lately been difficult to get fine pale soft picked gum from this port, most of the supplies being either mixed with dark gum or with hard *Senegal* quality.

IPECACUANHA.—The *Brazilian* variety is fairly steady, and for *Carthagena* root the price varies from 3s. 6d. to 4s. per lb. according to quality.

JALAP.—New York advices, dated April 5, state that there has been another arrival of 40 bales, bringing up the total stock to about 300 bales. The demand is very slack, and the only sale reported is one of 22 packages fair *Vera Cruz* at 8½c. per lb. A lot of fair quality has recently been sold at 5¼d. per lb. in London. It is believed that since that transaction little money has been accepted.

LYCOPodium.—Is rather dearer. From Hamburg 1s. 2½d. per lb. f.o.b. is quoted, while from Russian ports 1s. 3d. per lb. f.o.b. is asked. There is every prospect that the price of this article, which is chiefly used in fireworks manufacture, will advance further.

MASTICH.—The London market is quiet, ranging from 1s. 3d. to 1s. 8d. per lb. for pale drop, the higher quotation being for new crop and the lower one for old mastich. There is a fair supply of old gum offering at low rates, but the new crop is very firmly held. It is said that stocks in Chios, the island where the gum is produced, have become very small, and the difference in position between the old and new crop is explained by the fact that as soon as the new gum is obtainable buyers will scarcely touch the old crop.

MENTHOL.—Very dull of sale; 5s. 9d. per lb. would be accepted for fair quality on the spot, and for arrival the same figure is quoted.

OIL (CASTOR).—Steady, with a slightly firmer tendency. *French* and *Belgian* oil of first pressing offers on the spot at 27s., and of second pressings at 26s. 6d. per cwt. For May-June delivery the quotation for second pressings is 25s., and for July-December, 24s., f.o.b. *Italian* oil is quoted, according to brand, at 4d. to 4¼d. per lb., spot. *French medicinal* in barrels at 31s. to 32s., and in cases at 34s. to 35s. per cwt.

OIL (COD-LIVER).—Very slow of sale. Business has been done in fine *Norwegian* oil at 75s. per barrel, and another lot of fine quality is being offered at 70s. per barrel. Fine *Newfoundland* oil is reported to have sold to-day at 4s. per gallon, this variety being thus again higher in price than the *Norwegian*. Well-known *Norwegian* brands offer at from 70s. to 75s., e.i.f. terms.

OILS (ESSENTIAL).—*American peppermint* oil offers at 6s. 10½d. per lb. on the spot, which shows a weak market. *Japanese* oil is unaltered at the last quotations. *Oil of citronella* offers on the spot at 1s. 2d. per lb. in drums, and to arrive 12½d. per lb., c.i.f., would be accepted. This shows a somewhat easier market. *Lemongrass* oil is still quoted at 2½d. per oz. on the spot, and business is reported at 2½d., c.i.f., for drums for August-September shipment. *Oil of cassia* is reported rather dearer in China, but in London the market is neglected, 70 to 75 per cent. oil being quoted at 6s. per lb. on the spot, while the quotation for arrival is 5s. 3d., c.i.f. terms. *Star-anise* oil is held on the spot at 6s. 4½d. to 6s. 6d. per lb., and for arrival 6s. 6d., c.i.f., is the quotation. *Cajuput*-oil scarce, and tending higher. For good green quality 2s. 10½d. is asked by one of the brokers, but another holder requires 3s. per bottle. *Coriander* oil has been reduced in price. Best *English* now offers at 3s. 6d. per oz.; foreign at 1s. 6d. per oz. According to Japanese official returns the exports of *Menthol* in 1896 amounted to 60,001 caddies (of 1½ lb. each) against 30,836 caddies in 1895. The exports of *Peppermint* oil were 84,059 and 31,900 caddies respectively.

OPIUM.—A slight improvement has been perceptible in the market for *Turkish* opium this week, not so much on account of the war now in progress as because some of the British makers of opium alkaloids are said to have run very short of stock. For fine *Soft-shipping* up to 12s. per lb. has been paid. *Tokat* has changed hands at 9s. 9d., and for fine 1895 *Druggists'* opium 9s. 3d. per lb. has been obtained. For *Second druggists'* the quotation is 7s. 3d. to 8s. per lb. *Persian* firm, but without much business; fine, according to quality, at 10s. to 10s. 6d.; medium to good, at 9s. to 9s. 6d.; and common, at 8s. to 9s. per lb.

ORRIS-ROOT.—Dull of sale. Some business was recently done in fair *Florentine* at about 34s. 6d. per cwt., c.i.f. terms.

QUICKSILVER.—The London market is quiet, at 7l. 5s. per bottle from the importers and 7l. 4s. in second-hand. Two arrivals, totalling 10,000 bottles, have come from Spain this week.

RHUBARB.—No business has lately been done in first-hand, but second-hand holders have sold several parcels at firm prices. Quotations from China are still rather high, 1s. 2d. per lb. being the lowest figure for good *High-dried* there. The crop of this variety is said to be unusually small.

SAFFRON shows a very weak market, and prices are tending lower. The best *Valencia* offers at 42s. to 44s. per lb.; fine ditto at 40s. per lb.; and *Alicante* at from 25s. to 27s. per lb.

SARSAPARILLA.—There has this week been an arrival of 75 packages of sarsaparilla from New York by the *Mohawk*, one of 26 packages from Panama by the *Atrato*, and one of 11 bales from New York by the *Menantic*. The *Mexican* variety is very dull of sale, and tending lower. We hear from New York that there have lately been neither arrivals nor sales of this kind, and that the demand is extremely limited. Fifteen bales out of the *Atrato* shipment are *Lima*, the rest *Guayaquil* root.

SCAMMONY-ROOT.—Higher prices are asked owing to the decrease in the available supply, but so far they have not yet been paid. From 27s. 6d. to 30s. per cwt. is the current quotation. *Scammony resin* firmly held, but without inquiry. *Virgin* at 27s. to 30s. per lb.

SHELLAC.—For medium to fair second *Orange* TN grade from 61s. to 63s. per cwt. has been paid on the spot, and for fair flat free AC *Garnet* lae 73s. per cwt. The shipments of shellac from Calcutta for the first half of the month were very heavy, amounting to 18,900 cwt., against 10,800 in the corresponding period of last year. For delivery, 200 cases of *Orange* TN have been sold for August delivery at 62s. to 62s. 6d. per cwt.

SPICES.—No auctions have been held this week. For *Zanzibar cloves* there has been an improved demand at

fluctuating prices, closing at an advance of about $\frac{1}{16}d.$. Several thousand bales have been sold since our last, mostly for July-September delivery, at from $2\frac{3}{4}d.$ to $2\frac{1}{2}d.$ per lb. *Black pepper* is quiet, with a steady demand for Singapore, at $3\frac{3}{4}d.$ per lb., for May-July steamer shipment. *White pepper* steady but quiet, at $4\frac{3}{4}d.$ to $4\frac{1}{2}d.$ for Penang, June-August steamer; and $4\frac{1}{2}d.$ per lb. for Singapore, May-July steamer. These prices have been paid.

ST. IGNATIUS BEANS.—Very slow of sale at low prices. Considerable shipments are said to be on the way from the country of production.

STORAX.—Good liquid is quoted nominally at 70s. per cwt. with the usual allowances. The market, however, is dull and tending downwards.

SULPHONAL.—The outside makers have not followed the reduced quotations of the principal manufacturers. These prices are still maintained, but are said to leave not inconsiderable loss in manufacture. Sales, however, are being made at them, chiefly for the purpose of frightening the "outside" makers.

TRAGACANTH continues to be in good demand, especially for medium and ordinary kinds. Fine pale white *Persian gum* is quoted at 13*l.* 10*s.* to 14*l.*, seconds at 11*l.* 15*s.* to 13*l.*, and thirds at 10*l.* to 11*l.* per cwt.

TURMERIC is unchanged but very firmly held, and extremely high prices are asked for the finer qualities; fair *Madras* finger is quoted at 16*s.*, and for fine as much as 18*s.* or 19*s.* per cwt. is asked. *Bengal* is quoted at 10*s.* 6*d.* for good dark fracture, and 9*s.* 6*d.* for ordinary quality. For *Cochin* split bulbs 7*s.* per cwt. is asked, and that figure is also reported paid. The merchants say that there will be practically nothing coming forward from India this season.

VANILLA.—In London the demand remains very good privately, and prices are well maintained, but nothing of fine quality is offering. The stock in the warehouse at present is about 180 tins. It is reported that the coming crop of *Bourbon* vanilla will be at least 30 per cent. less than the last. In America the market is very firm, and stocks are becoming smaller every day. The holders of *Mexican* vanilla, both in Mexico and in New York, are very firm.

WAX (JAPAN).—The Japanese official returns declare the exports of Japan wax to have been 21,483 piculs in 1896 against 27,923 piculs in 1895. The London market is quiet. For arrival the quotation is 34*s.* per cwt., c.i.f. terms.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on April 21, reports that the market for *Canary-seed* has sensibly improved during the past few days in consequence of the news from the East, and good bright Turkish is now held for 28*s.* per quarter, with an upward tendency. *Castor oil* remains firm on the spot, with high prices in forward positions. Good seconds *Calcutta* are selling at $2\frac{3}{4}d.$ per lb., first-pressure French at $2\frac{1}{8}d.$, second-pressure $2\frac{3}{4}d.$, Bombay $2\frac{1}{4}d.$, and *Madras* $3\frac{1}{4}d.$ to $3\frac{1}{2}d.$ per lb. *Soudan sorts of Acacia gum* are steadily held for previous rates, the supply being very moderate, and a good general inquiry prevails, fair hard being quoted 60*s.* to 62*s.* 6*d.* Medium grades are scarce, and buyers' operations are confined within very narrow limits in consequence. *Honey* of all grades is in good request; some River Plate has realised 21*s.* per cwt., some pile III. liquid Chilian sold from the quay at 20*s.* per cwt. Fine grades of Californian are selling at full prices. *Kola-nuts* continue to meet with that steady demand which has now characterised the market for many weeks, and sales of fresh imports have been effected at $2\frac{3}{4}d.$ per lb. *Fenugreek-seed* meets with slow demand at 8*s.* to 11*s.* per cwt., according to grade. *Beeswax* is steadily moving up, and sales have been made during the past few days at figures ranging from 6*l.* 12*s.* 6*d.* to 7*l.* for good grey to pale and dark yellow Chilian.

The Market in Heavy Chemicals.

There is not much of special interest to report as regards heavy chemicals. The holidays have, of course, interfered with business generally, and there has not been much doing. On the whole, however, there is a distinctly better feeling in the market, and inquiries for miscellaneous chemicals are coming in freely again, whilst shipments to the United States

continue heavy. A steady demand for shipment to the Baltic and northern ports generally is also expected. *Sulphate of ammonia* is again quoted lower; Beckton, 7*l.* 7*s.* 6*d.*; Beckton terms, prompt, 7*s.* 6*d.*; Leith, 7*l.* 8*s.* 9*d.*; Hull, 7*l.* 11*s.* 3*d.*; and London, 7*l.* 10*s.* *Benzols* are quiet, with 90's a shade lower, quotations, prompt and forward, now standing at 2*s.* 4*d.*; 50 per cent. remain unchanged. *Cream of tartar* is steady at the higher figures; powdered 83*s.*, and crystals 81*s.* *Sulphate of copper* continues dull, at unchanged rates. *Caustic soda* and *Bleaching-powder* are in fair request. *Chlorate of soda* dull. *Chlorate of potash* easier. *Bichromates of potash and soda* continue in brisk demand. Recovered *Sulphur* scarce. South Durham *Salt* in demand. *Nitrate of soda* steady; refined, 8*s.* to 8*s.* 1*d.*; ordinary, 8*s.* *Hyposulphite of soda* meets with better inquiry; while *Soda crystals* are firmer, with advancing tendency. Present prices are: f.o.b. Tyne, 50*s.*; f.o.b. Liverpool, 57*s.* 6*d.*; ex ship London, barrels 52*s.* 6*d.*, bags 50*s.* *Carbolic acid* firm. The heavy demand for *Green copperas* continues, and prices remain firm at late advance. Brown *Acetate of lime* firmly held, and value tends upwards owing to low stocks.

The Hamburg Drug-market.

Our Hamburg correspondent writes on April 20:—"Business is very quiet here to-day, owing to the recent Easter holidays. On Good Friday night the new oil-mills of Brinckmann & Co., at Harburg, were almost entirely destroyed by fire. The damage is estimated roughly at about 100,000*l.* There was only little doing in the drug-market to-day, and prices have not changed much since last week. *Antimony* continues firm, at 39*m.* per 100 kilos. *Arsenic* is unchanged and firm at last week's quotations. *Balsam copaiba* is steady; genuine Maracaibo is held for 4.50*m.* per kilo. *Balsam Peru* is also firm at 18*m.* per kilo. *Balsam tolu* steady, at $5\frac{1}{2}m.$ per kilo. *Camphor (refined)* is firm; to-day's quotation is 290*m.* per 100 kilos. *Cassia lignea* is quiet; the new crop can be bought at 77*m.* to 76*m.* per 100 kilos. *Coca-leaves* are unchanged; Bolivian quoted 140*m.* per 100 kilos. *Ergot of rye* is quiet, at 95*m.* to 100*m.* per 100 kilos. *Kola-nuts* are also quiet, at 55*m.* to 70*m.* per 100 kilos., according to quality. *Menthol* quiet, at 13*m.* per kilo. *Chinese galls* are quiet; March-April shipment can be bought to-day at about equal to 58*s.*, c.i.f. Hamburg. *Russiananise* is unchanged, at 27*m.* per 100 kilos. *Star-anise* is quiet; spot delivery at 165*m.* to 170*m.* per 100 kilos. *Lycopodium* continues firm, at 265*m.* per 100 kilos. *Opium* is rather easier, at 18*m.* to 19*m.* per kilo. *Wax (Japan)* is firmer, at 76*m.* per 100 kilos. *Cod-liver oil* dull; business has been done at 73*m.* per barrel. *Castor oil* is a shade firmer; spot delivery (French oil of first pressing) is again quoted at 56*m.* per 100 kilos. White sweet *Seal oil* quiet, at 50*m.* per 100 kilos. in barrels. Japan fish oil is also quiet, at 22*m.* and 21*m.* per 100 kilos. in cases. *Peppermint oil* unchanged; Todd, 6*m.*; HGH at 6*m.* per lb.

The Bergen Cod-liver Oil Market.

Our mail advices from Norway are dated April 17. On that day our Bergen correspondent writes:—"Business here has been interrupted by the Easter holidays, and the market is very dull. The quantity made up to date may be estimated to be at least 25,300 barrels of unrefined oil. The largest quantity ever made before was in 1893, when the total production amounted to 30,500 barrels; but this year most of the Finmarken production is still to come, and there is reason to suppose that also this year the total will reach 30,000 barrels. Best non-congealing new Lofoten oil is offered at 70*s.*, f.o.b." Another correspondent writes:—"The Lofoten fishery is closing; the catch has been very poor lately, and the livers are lean. In Finmarken no oil had yet been produced in the middle of the month. The market is sluggish. If prices should decline further, it will mean that all the exporters must sell at a direct loss, to which they are not likely to submit without necessity. The Finmarken production may bring the total up to, say, 32,000 hectl., or one-third more than last year (24,000 hectl.). Taking into consideration that prices did not go below 160*s.* through the whole of last year, it seems difficult to understand why a difference of about 5,000 barrels in the output of refined oil should cause a decline below 80*s.*, which is the average quotation at the moment for first-class brands."

London Drug Statistics.

THE following statistics relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses in the course of the three months from January to March, 1897 and 1896, and to the stocks on March 31 of these two years. Their accuracy cannot be guaranteed.

Article	Stocks		Imported		Delivered	
	1897	1896	1897	1896	1897	1896
Aloes.....es, &c.	2,968	4,515	454	1,141	1,527	1,617
".....gourds	1,842	2,316	—	—	114	383
Anise, Star.....es	234	243	100	—	20	28
Arrowroot.....brls	9,047	14,841	1,270	4,812	3,968	3,620
".....bxs & tns	2,247	1,613	9	115	285	561
Balsams (medicinal)						
cks, &c.	614	1,087	106	220	298	496
Borax.....pkgs	10	16	1	—	1	25
Calumba.....bgs	125	817	263	11	149	416
Camphor (crude) pkgs	11,696	13,699	2,494	836	2,730	3,410
Cardamoms.....es, &c.	884	619	1,090	594	649	952
Cinchona-bark:—						
S. American.....es	56	58	—	—	—	—
".....bils, &c.	13,504	15,567	736	719	1,056	2,401
E. I., Ceylon, f.....	310	182	25	—	2	88
and Java.....bils	7,100	10,337	1,593	4,756	2,495	3,592
Cocculus indic.....bgs	60	174	—	147	12	64
Cremon of tartar.....cks	5	5	—	—	—	—
Cubels.....bgs	306	376	3	—	167	20
Cutch.....tons	1,706	1,755	169	445	287	401
Dragons' blood.....es	23	161	—	60	36	78
Galls:—						
China, &c.....es	525	1,114	21	1,116	579	509
Turkey & Persia bgs	4,177	4,053	421	451	1,761	1,355
Gambia.....tons	1,462	1,162	1,717	1,929	1,322	1,506
Gums:—						
Acacia.....pkgs	11,101	10,961	5,966	6,479	7,829	6,459
Ammoniac.....	35	60	—	15	4	26
Anini & copal.....	16,826	8,159	10,762	4,551	8,858	5,102
Asafetida.....	274	1,058	279	725	266	430
Benzoin.....	2,939	1,523	819	899	1,283	884
Damar.....	3,523	3,386	1,310	3,099	1,486	1,806
Galbanum.....	1	2	—	—	—	—
Gamboge.....	189	239	69	168	72	88
Guaiacum.....	42	31	2	32	10	58
Kino.....	34	14	14	2	5	2
Kowie tons (net)	1,152	1,075	1,023	544	924	908
Mastic.....pkgs	16	29	5	21	1	12
Myrrh.....	558	612	71	217	107	160
Olibanum.....	2,508	4,028	1,749	3,409	1,658	1,436
Santalac.....	708	393	715	410	324	279
Tragacanth.....	3,097	2,709	1,101	2,108	2,041	1,372
Tpeacacantha.....bils & pkgs	510	512	264	141	224	257
Jalap.....bils	269	148	71	14	106	118
Lac dye.....chts	2,543	2,744	—	—	162	50
Nux vomica.....pkgs	454	669	40	71	109	500
Oils:—						
Anise.....es	109	88	110	20	46	62
Cassia.....	87	37	101	8	34	2
Castor.....cks	233	112	440	328	419	283
".....es	619	881	94	334	280	538
Cocoa-nut.....tons	449	716	373	658	269	683
Olive.....cks&c.	1,000	883	368	912	527	456
Palm.....tons	9	10	6	30	12	29
Quinine sulphate lbs	83,268	116,578	7,380	6,199	12,066	12,897
Rhubarb.....chts	262	723	109	148	308	348
Safflower.....bils	172	94	43	49	19	34
Sarsaparilla.....	269	220	236	216	230	262
Senna.....bils, &c.	1,923	1,609	312	579	1,411	1,567
Shellac:—						
Button.....es	6,407	7,242	2,794	4,233	2,306	3,119
Garnet.....	3,928	4,685	1,233	1,227	1,552	2,425
Orange.....	32,948	20,241	17,869	16,268	10,434	9,715
Total.....	43,283	32,168	21,896	21,728	14,292	15,259
Sticklac.....	3,245	1,908	834	2,076	608	663
Turmeric:—						
Bengal.....tons	494	719	16	53	48	88
Madras, &c.....	327	557	6	38	60	115
Total.....	821	1,276	22	91	108	203
Vermilion chits, &c.	7	16	—	2	—	2
Wax:—						
(Bees').....bils & srns	364	1,028	226	351	272	519
".....cks & es	1,074	1,206	891	791	784	601
(Japan).....es, &c.	192	190	144	10	106	290

TEST-SOLUTION FOR CINCHONA ALKALOIDS.—A mixture of equal parts of a 10-per-cent. solution of sodium thio-sulphate and a 5-per-cent. solution of copper sulphate. Add this drop by drop to the liquid to be tested. In presence of quinine, quinidine, cinchonine, or cinchonidine, a yellow, amorphous precipitate is formed within a minute.—*Jaworowski.*



In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a non-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

The Minor Fee.

SIR,—It is evident from the line of the discussions which have taken place on the subject of raising the Minor fee that many of those who have taken part in them have not been at the slightest trouble to investigate the matter for themselves. For the most part, members and associates of the Pharmaceutical Society, possibly out of loyalty to the Council, seem prepared to blindly follow whithersoever they may lead them. Indeed, their willingness to allow the Council to dip their hands into other people's pockets forcibly reminds one of Artemus Ward's readiness to sacrifice every drop of his relations' blood in the cause of the Civil War. It is easy to be loyal to any cause at someone else's expense, but the good old adage "Be just before you are generous" still holds good, and applies with peculiar force when you propose to give away other people's money and not your own.

If chemists would only bring to bear on the subject that ability and acumen which enable them to carry on their own businesses successfully, they would have no difficulty in proving for themselves which part of the Pharmaceutical Society's business pays, and which does not. It is not a matter of opinion; it is a question of fact. The merest tyro in arithmetic can show beyond all dispute from the Society's last financial statement that it is the members and associates who do not pay, and not the examinations.

If anyone doubts this assertion it is perfectly easy of proof. Let him take the cost of the *Pharmaceutical Journal*, including postage to members and associates, and deducting the receipts from sales and advertisements, add to this the cost of the library and museum and the school of pharmacy (and bear in mind these are provided for the sole use and benefit of members and associates, and have nothing whatever to do with the administration of the Pharmacy Act), and he will find they exceed by hundreds of pounds the amount contributed annually by members and associates. Yet we are told that these gentlemen, "both in defence and attack, bear the brunt of the fray."

Anyone who will take the trouble to do the very simple sum I have sketched out will find that members and associates do not contribute one penny towards the administration of the Pharmacy Act, such as law-costs, rents, rates, taxes, secretarial salaries, &c.

It is impossible to examine the last financial statement without seeing that it is the *Pharmaceutical Journal* which is a heavy loss to the Society. Speaking at the last annual meeting, Mr. Carteighe in his presidential address admitted that the adverse balance was due to expenditure on the *Journal*.

The arguments put forward by friends of the Society in their attempt to disprove this are many and various, and, from a financial standpoint, amusing. Mr. Eberlin, the secretary of the local association, speaking at the Nottingham meeting, as reported in the *Pharmaceutical Journal* of April 3, said, "It should be borne in mind that the *Journal* depended for its income on advertisements and sales alone, and not on annual subscriptions." It would be interesting to know who, in Mr. Eberlin's opinion, pays the 3,598*l.* which the *Journal* costs the Society over and above the receipts from advertisements and sales. Presumably he appropriates the members' and associates' subscriptions for the "sinews of war."

But at the same meeting the Editor of the *Journal* ridiculed the assertion that the deficit had been caused by the expenditure on the *Journal*, which he said "had always been produced at the cost of the subscribers to the Society."

Here we have, then, two friends of the Society at the same meeting appropriating the annual subscriptions of members and associates, which average 18s. each, for entirely different purposes. It is of course evident that by this kind of manipulation 18s. can be made to go a very long way.

As regards the majority of chemists—those who are outside the Society, and presumably do not admire its general policy—it seems strange that any of these should support the Council in their demand for an extra five guineas for the Minor examination. Yet such is the case. As far as I am able to judge, they do so not from any love of the Pharmaceutical Council, but because they entertain a vague sort of hope that in some way or other the change will benefit themselves by keeping some men out of the trade.

This seems to me altogether a vain hope. A man having passed the Preliminary and served an apprenticeship to the trade is scarcely likely to leave it on account of the extra fee. Supposing, however, that it does deter some men from qualifying, they would still remain in the trade, and so long as we have the store-system with us there is not the remotest chance of there being any dearth of chemists' shops.

Perhaps the most remarkable argument yet put forward in support of the ten-guinea fee is that used by one speaker who gave it as his opinion that it would make the English chemist more like the continental pharmacist; though how taking an extra five guineas out of a man's pocket is to raise his status or better his condition the speaker did not explain.

As it is not proposed to alter the Minor examination, nor is it in the power of the Society to afford the examinee any more protection when he has passed than he enjoys under existing circumstances, it seems to me that the only difference that the new fee would make to the candidate would be that he would find himself exactly five guineas poorer than under the present arrangement.

That the examinations pay, and pay handsomely, is proved by the Society's last financial statement, which shows that after paying every single cost incidental to the examinations there is a clear profit to the Society of over 5,000%.

I have purposely avoided going into details as regards figures, because it is sometimes said that figures can be made to show anything.

Let everyone investigate the matter for himself. The Society's financial statement is open to all, and is not difficult to understand. No chemist in the country would allow the Pharmaceutical Society to take five guineas out of his pocket without knowing the reason and the necessity for it. Surely, then, as a matter of common fairness and honesty, he should be equally careful before he encourages the Society, by his vote or influence, to take a like sum out of the pockets of those who in many cases can ill afford it.

Yours very truly,

Nottingham.

EDWARD GASCOYNE.

SIR,—I am very much in accord with you on the question of the proposed by-laws, but do not wish in the meantime to discuss them in detail. What I desire to point out is that the new proposals only bring into more prominent relief an anomaly which exists under the present as well as it would exist under the intended system. So far as I am aware, it is a circumstance without precedent and without parallel that a Society which is, to all intents and purposes, subsidised by the State should run a trade journal. A Society like the Pharmaceutical ought to limit its publications to a record of proceedings and scientific notes. Otherwise the Society should be reconstituted so as to keep its voluntary and statutory functions entirely distinct, especially in their financial aspects. As things stand, you ought to take conjoint action with other journals to have the present anomalous and unfair condition of matters brought to an end.

I am, &c.,

April 10.

OMEGA. (98/60)

SIR,—It sometimes happens that a candidate, after having made some three or four attempts to pass the Minor, realises that a pharmaceutical calling is not his *forte*. He then ponders over the matter for a time, and next begins to look for something more worthy of his abilities, and perhaps finds it. But—if I understand the by-laws rightly—he has paid five guineas for registration. Should he fail to pass, he clearly has no use for registration, and will probably look for

a return of his five guineas—let us hope that he will not look in vain, though the by-laws do not appear to provide for the contingency.

Cambridge.

Yours truly,

A. F. HEALD.

SIR,—Though I am not against the Pharmaceutical Society increasing the Minor fee, yet I do not think the money so raised should be used to support the Society's *Journal*. The *Journal* ought to be self-supporting or cease. I suppose they won't drop the *Journal*, as they would then have nothing to offer for the subscriptions, except the titles A.P.S. and M.P.S.

Yours, &c.,

CAPSULE. (80/32.)

Lactophenin (97/17), who also describes himself as an unqualified assistant in London, W., asks:—"May not the reluctance of the trade to support the Society have its origin in the fact that they feel to a certain extent ashamed, instead of proud, of their connection with it?" "The Pharmacy Act," he remarks, "was passed by Parliament in the fond belief that they were safeguarding the public—not creating a trade monopoly. It is made an instrument of petty personal and trade jealousy." "Lactophenin" urges that it is time the Government took upon themselves the powers of the Act.

An assistant in a southern English town (96/30) writes:—"I, along with all the other assistants here, desire to express my entire sympathy with you in opposition to the most unjust demand of the Pharmaceutical Society to increase the Minor examination-fee to ten guineas, and sincerely hope the opposition you are now offering will have the desired effect."

[Assistants who feel that the proposal to extract five guineas more from them than they expected when they passed the Preliminary is an unjust one, should address a protest to the Clerk of the Privy Council, Whitehall, S.W. Their representations will not be disregarded.]

Company-pharmacy in Ireland.

SIR,—It is not my intention to enter in a controversy with Mr. McWalter, or any one else, on the subject of the amalgamation of my business with those of my friends, Messrs. Conyngham and Robinson, and forming it into a limited company. I am perfectly satisfied that we have done what is right to ourselves, without doing wrong to any other person either in our business or out of it.

At the same time I feel I ought not to let the mis-statements made—in Mr. McWalter's letter in your issue of last week—of inconsistency and insincerity of conduct pass without contradiction or correction. If the writer had taken the trouble to ascertain facts and to inform himself on the subject of his letter from my correspondence, statements in Council, and presidential addresses, he should have found that I never deviated from my convictions that it was a scandal and absurdity that bogus companies (limited) (incorporated under the Companies Act for the acknowledged purpose of evading the Pharmacy Acts) should be permitted to do what no individual in such company would be permitted to do. But, on the other hand, I always consistently advocated that a *bona-fide* pharmaceutical chemist should have it in his power to form his business into a limited company with a board of directors—qualified men; and, as I said, if Mr. McWalter had taken the trouble to acquaint himself with facts, he might have found that almost my last act as President of the Council was to formulate for the Conference on Company Law Amendment a clause for its adoption, viz.:—

Nevertheless it shall be unlawful for any number of persons to form a company or corporation under Limited Companies' Acts, to engage in any business or profession which as individuals it would be unlawful for them to engage in. Notwithstanding, it shall be lawful for any duly qualified person or company of duly qualified persons, who are in business and carrying on such business lawfully under Act of Parliament, to put his or their business under the Limited Liabilities Companies Acts, provided always that such member of the directorate and the managers of each limited company be duly qualified to carry on such business for himself individually, and that such limited company shall retain all

the privileges that the qualified person or persons possessed before putting the business under the Companies Acts.

And this recommendation was sanctioned and adopted by our Council, with the substitution of the word "company" for "directorate"—as per resolution of Council on December 4, 1895, reported in your journal December 14, page 854.

In the formation of our new company, I may say that we have fully carried out this recommendation as sanctioned by the Council; as not only is the directorate composed of qualified men, but we have also secured that every member of the company must be a pharmaceutical chemist, or qualified apothecary. And if it will be an ease to Mr. McWalter's fears on behalf of our apprentices, I can assure him they are quite groundless, as we have made sure that there can be no loophole or shadow of pretence by which our apprentices could be refused by the Council as fit candidates to present themselves for the Licence examination. I do not intend to further refer to any other of Mr. McWalter's strange statements, each of which is as baseless as the first.

Our company has not much to fear either from the Council, the members of the Society, our own apprentices, or even the Chemists' Assistants' Association, to whom I attribute more sense and better feelings than for one moment that they should be led to follow or listen to Mr. McWalter's "plan of campaign."

I have the honour to remain

Yours faithfully,

12 Grafton Street, Dublin, April 19.

WM. HAYES.

SIR.—It is to be hoped that the action of Messrs. Hayes, Conyngham, and Robinson in starting a limited liability company will not be allowed to pass unheeded by the members of the Pharmaceutical Society, whose interests these gentlemen are bound to look after. So far from protecting those members whom they represent, they actually make use of their positions on the Council of the Society to further their own interests.

There is a very interesting legal query in connection with this company, and it would be well if your legal editor gave his opinion on the point as to whether these gentlemen by retaining the ordinary shares are entitled to grant certificates to their apprentices. If so it will be contrary to their own expressed opinions and actions in regard to other companies.

Yours truly,

GARRETT T. NAGLE.

136 Great Britain Street, Dublin,
April 19.

SIR.—I sympathise with Mr. McWalter in his disappointment. No doubt it has been a cause of pain to him to see his dearest wish anticipated, as has been done by the formation of this new limited company. It is an open secret that Mr. McWalter was looking forward to the day when James C. McWalter, Managing Director of — & Co. (Limited), drug and patent-medicine purveyors to the inhabitants of Marlborough Street and all the region round about, would appear on a prospectus. Still, I fail to see why he should try to get the Assistants' Association to take up his case by causing his own assistant to propose the resolution down in his name; and I would warn my fellow-assistants of being made a catspaw. We all know that it is the cutters who are inimical to the interests of assistants. As an assistant of several years, I regret there are not more men like Hayes, Conyngham, and Robinson in the trade. If there were, an assistant's lot would be a much happier one than it is. I do not think Mr. McWalter has made clear to us assistants why we should interfere because he feels aggrieved, nor do I see why the three gentlemen named should have forfeited the confidence of their electors by combining as they have done. Their policy on the Council has always been to uphold the dignity of pharmacy (and a pretty tough job they have had, too), while their conduct towards their assistants has always been an example of what the relations between employer and employé ought to be.

Yours sincerely,

CAL O'MELL. (103/30.)

SIR.—Mr. McWalter expresses very accurately, I venture to say, the opinion of Irish chemists generally on the action

of Mr. Hayes and his fellow-directors. Such action, if taken by the humblest licentiate of the Pharmaceutical Society, would be regarded unfavourably by his fellow-craftsmen, but on the part of gentlemen holding the position of guardians of the rights and privileges of Irish chemists, it can only be considered as an act of treachery. I hope the appeal which the Pharmaceutical Council are about to issue to their licentiates will be widely responded to, and that the first result of an infusion of new blood will be a demand for the resignation of three gentlemen, and the election of representatives who will not use their official positions as a lever to further their own personal interests. I await with interest an expression of the opinion formed by the Pharmaceutical Council upon the action taken by their colleagues.

Yours faithfully,

CHEMICUS. (101/3.)

SIR.—I wish to ask Mr. McWalter what claim he has on chemists or their assistants to speak on their behalf. Mr. McWalter is one of the greatest cutters in the land. Perhaps he is aggrieved that Messrs. H., C., and R. wish to continue their business in a fair way, only giving the ordinary shares to qualified men.

Yours faithfully,

A CHEMIST'S ASSISTANT. (103/19.)

A Masonic Hymn.

[We append a specimen of the way Masons talk to each other. The lines are sent to us with a request that we will publish them. We have no objection to the sentiments so far as we understand them, though we hope the K.S., whatever that may be, is not troubled with by-laws.]

TO WOR. BRO. MICHAEL CARTEIGHE.

(On his being elected W.M. 2,394.)

I greet thee well, my brother of the pestle!

And well I greet my brother in the craft!

With pharmacology we love to wrestle,

And from the bowl of Masonry we've quaffed.

The chair of K.S. thou wilt fill full well,

For well thou filled'st our presidential chair;

And Lodge of Galen fears no dangers fell

What time M. Carteighe wields the sceptre there.

A dual science occupies our hearts,

A mutual love for two rare arts o'ersways,

And guides, directs, inspires, and still imparts

A sense of duty in our works and ways.

Long may'st thou live to forward deeds sublime,

And leave thy footprints on the sands of time!

CHAPTER 603.

An Irish Chemist and the Record Reign.

SIR.—In your last issue I noticed that the Council of the Pharmaceutical Society of Ireland are about drafting an address of congratulation to her Majesty Queen Victoria on the celebration of her sixtieth year of sovereignty. The Irish Pharmaceutical Council might leave that to English chemists. Irishmen, whether chemists or otherwise, have no particular reason to be joyful over the long reign of England's Queen. During the "record reign" 1,500,000 Irish people died of starvation and over 3,000,000 have emigrated to foreign countries. At present England is robbing us to the extent of 2,750,000*l.* sterling annually. Her Majesty took very little interest in Ireland and its inhabitants, and I need scarcely say that the great majority of Irishmen take very little interest in her or her doings. The Irish Pharmaceutical Council would be better employed in protecting its licentiates than in writing congratulatory addresses to a figurehead on the English throne. I wrote to those gentlemen over one year ago, telling them about infringements of the Pharmacy Act occurring here, and received a reply that the matter was under the consideration of the Law Committee. That august body evidently takes a long time to consider matters, as nothing has been done since.

Yours truly,

IRISH COUNTRY CHEMIST. (101/50.)

DISPENSING NOTES.

Liquorice in a Mixture.

SIR.—Would you kindly oblige by informing me of the best way of dispensing the following prescription?—

Annon. chlorid.	..	..	..	..	gr. xij.
Pot. iodidi	..	..	..	..	gr. j.
Tinct. nucis vom.	..	..	..	..	℥x.
Ex. glycyrrh. liq.	..	..	..	..	℥xx.
Aque ad	..	..	..	..	℥ss.

Ter die sumend. Mitte 3 viij.

Dispensed as written a thick heavy precipitate forms which can only be remedied by filtering.

Yours respectfully,

JUNIOR. (97/34.)

[This deposit always happens with liquorice and ammonium-chloride mixtures, and cannot be avoided. Filtering is the best course.]

German Prescriptions.

SIR.—May I ask for your assistance in translating the enclosed tracing of a prescription handed to me a few days ago? It was made up once at a provincial house, to whom I wrote for their help, and very courteously I received an answer:—“(1) Pot. iodidi, 13 gr.; (2) spt. terebinthæ; (3) white oils. We sent it to a London house, and you had better do likewise.” I could not have done better, seeing they were wrong, in the first place, in the weight of pot. iod.; and, in the second place, I find that “spt. terebinthæ” in German is exactly as we read it—“oleum terebinthinæ.” I am aware that “mist. oleos. bals.” is a balsamic mixture recognised in the G.Ph.

Yours faithfully,

April 19

JOHN EVANS.

[The prescription is—

Kal. iodat.	..	..	..	..	50
Spir. serpyll.	..	..	..	..	1000
Mist. oleos. bals.	..	..	..	..	300

M.D.S. for external use.

This means 5 grammes (75 gr.) of potas. iodid., 100 grammes (3xxv.) of spirit of wild thyme (15 drops of the oil in proof spirit 3xxv.), and 30 grammes (3viiss.) of mist. oleosa balsam. (balsam. vitæ Hoffmann), which is a mixture of 3j. each of oils of lavender, cloves, cassia, thyme, lemon, mace, and neroli, 3iij. of Peru balsam, in S.V.R. fl. 3xxv. The ingredients in the prescription must be weighed. The rendering “white oils” for mist. oleosa balsamia more than surprises us.]

Tr. Ratanh. Salolata.—Dresdener Medical Man sends us the following formula for this preparation:—

Rad. ratanh.	..	..	..	..	20 grammes
Spirit. rectific.	..	..	..	..	70 grammes
Aque..	..	..	..	..	30 grammes
Salol	..	..	..	..	0.5 gramme

This is in reply to 92/49, F. E. R.

Quin. Cit. and Pot. Cit.

SIR.—In the report of the Liverpool Pharmaceutical Students' Association my suggestion for dispensing a mixture containing ferr. quin. cit. and potass. cit. was misinterpreted. Dispensed as I actually suggested, it produced a clear mixture at first, though precipitating a little afterwards, but was readily miscible upon shaking. The prescription was as follows:—

Ferr. quin. cit.	..	..	..	..	5ij.
Potas. cit.	..	..	..	..	5iij.
Syr. aurant.	..	..	..	..	3j.
Aq. ad	..	..	..	..	3vj.

The pot. cit. and 20 gr. of citric acid were dissolved in 2 oz. of the water, and the ferr. quin. cit. in 2½ oz., and this solution was gradually added to the solution of pot. cit., the syrup being added last. This method ensures accurate division of doses, and is the best if the use of citric acid is permissible. It is generally sent out as a clear mixture (the after-precipitation being comparatively slight), and not with the precipitated quinine in suspension. If dispensed without citric acid, by mixing the salts in solution as concentrated

as possible, a coagulated precipitate is formed, which, after setting aside, does not readily shake up, thereby lessening the chances of accurate doses. This is more or less so even when mixing with dilute solutions. The addition of a little mucilage to the solution of pot. cit. produces a mixture perfectly miscible, very different in appearance, and more slightly; and this should be as much permissible as with quin. and pot. iod. mixtures.

Yours truly,

H. S. LEAN.

LEGAL QUERIES.

92/25. *Lin.*—The absence of oil or the presence of foreign matter will render the vendor of crushed linseed liable to a penalty under the Sale of Food and Drugs Act.

86/10. *Soap.*—Our article on fancy titles (April 10, page 583) will answer your query as nearly as we can answer it. We should hardly regard your title as a false trade-description.

97/43. *Veritas.*—The executors can give you a testimonial if they think fit to do so. But nobody can be compelled to give one.

96/19. *Nemo.*—If the petroleum emulsion, when tested in the manner described in the Aet, gives off an inflammable vapour at less than 100° Fahr., it should be labelled “highly inflammable.”

97/28. *W. T.*—If the apprenticeship gives you no claim against the father for damages you can only depend on moral suasion. See an answer to “E. W.” on page 36 of this volume (January 2, 1897).

97/27. *An Old Chemist.*—The anomaly of companies being allowed to do what individuals may not do under the Pharmacy Act has been discussed scores of times. An attempt is being made to remedy it by a clause in the Companies Bill. This, too, has been fully discussed.

97/32. *Quærens.*—It would be a very risky proceeding to post up in your shop with any intention of doing him an injury the name of a customer who may owe you money. You would not be justified in doing this even if you had obtained judgment against him. Creditors should remember that a debt is in no sense a crime. No one is obliged to give credit.

100/31. *Ipecac.*—We do not see how a chemist could be held either criminally or civilly responsible for the consequences of refusing to supply a medicine at night. It might, of course, be possible to prove, under some circumstances, that the chemist had entered into a contract, which he broke. But every such case must stand on its merits.

MISCELLANEOUS INQUIRIES.

We reply to our subscribers and their employes only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.

92/20. *A. H.*—Fahlberg's Saccharin.—The original process for preparing this was to sulphonate toluene, and treat the toluene monosulphonate produced with phosphorus pentachloride, whereby para and ortho toluene sulphochlorides were obtained. The ortho compound was separated and purified, and on treatment with ammonia yielded ortho-toluene sulphamide. This body on oxidation yields benzoyl-sulphonic imide, which is saccharin. This is the process of the original patent, but other methods have since been put forward, and all are covered by patents. In view of the fact that the holders of the patents have combined, we do not think you will find it profitable to compete with them, as you would be likely to meet with legal difficulties.

89/66. *Ferrum*.—Children's Hair-lotion.—The following lotio staphisagrie of the Edinburgh Infirmary Pharmacopœia is excellent:—

Stavesacre-seeds, in rough powder	..	..	2 oz.
Acetic acid	..	..	1 oz.
Water	..	..	a sufficiency
Spirit of wine	..	..	2 oz.
Glycerine	..	..	1 oz.
Oil of geranium	..	..	2 min.
Oil of lavender	..	..	2 min.
Oil of lemon	..	..	4 min.

Mix the acetic acid with 16 oz. of water, add the stavesacre, boil for ten minutes in a covered vessel, let stand till cold; mix the essential oils and spirit of wine, add to the cold decoction, strain or filter; now add the glycerine, and make finished product 1 pint.

Infant's Preservative.—The following is a good and safe article:—

Spt. ammon. arom.	..	..	..	..	℥℥xxx.
Tr. zingib.	..	..	..	..	℥℥xl.
Tr. cardam. co.	..	..	..	..	5ij.
Syrupi	..	..	..	..	℥ss.
Aq. feniculi ad	..	..	..	..	℥v.

M.

Dose: A small teaspoonful when the child is pained.

92/38. *New Subscriber*.—We really cannot spare space to answer questions which a reference to the British Pharmacopœia or any other authoritative text-book would settle.

95/41. *J. H. G.*—Copper Amalgam for Dental-work is made from precipitated copper (scrap iron put in copper-sulphate solution) and mercury, kneaded together under warm water.

94/11. *W. C. J.*—Mahogany Varnish Stain is made with dragon's-blood.

92/63. *T. & T.*—Dextrin Mucilage is made by dissolving the dry dextrin in water, with 5 per cent. acetic acid, gradually heated until solution is complete. A preservative must be added.

92/19. *A. J. S.*—Vin. Cocœ.—See *C. & D. DIARY*, page 487.

92/36. *J. H.*—Lilac-perfume.—See our 1895 *DIARY*, page 393. See also *C. & D.*, July 11, 1896, page 45.

92/32. *Coating*.—Gelatin Solution for Horse-balls.—Use the coating for which you will find a formula in our *DIARY*, page 480. You may omit the mucilage and replace it with glycerine $\frac{1}{2}$ oz., thus:—

Gelatine	..	..	..	..	..	℥iv.
Boric acid	..	..	..	..	..	5ij.
Glycerine	..	..	..	..	..	℥ss.
Water	..	..	..	..	..	℥xx.

Make a solution.

96/10. *Macula*.—Bismuth Hair-dye:—

Subnitrate of bismuth	..	..	..	..	5ij. 9j.
Water	..	..	..	..	℥ij.
Nitric acid	..	..	..	..	℥v.

Mix the bismuth with the water in an evaporating-dish, heat, and add the acid drachm by drachm until solution is effected. Then pour into the following solution:—

Tartaric acid	..	..	..	..	5℥ss.
Bicarbonate of soda	..	..	..	..	5ij. 9℥ss.
Water	..	..	..	..	℥xxxij.

Collect the precipitate on a calico strainer, wash well with water, drain, and dissolve in a sufficiency of strong solution of ammonia. To the solution add:—

Hyposulphite of soda	..	..	..	..	9v.
Glycerine	..	..	..	..	℥j.
Water	..	..	..	..	℥ij. or a sufficiency

The product should measure 8 oz. It is to be used like the lead restorers, and imparts a brown colour to the hair. For a black the application must be followed by ammonium-sulphide solution. *Aletris Cordial*.—See *C. & D. DIARY*, page 329.

90/48. *Cotswold*.—How to Become a Lady Dispenser.—Most of the women who dispense in hospitals have been trained in such institutions, but there is no real objection to

putting them through the same training as boys have to go through; and some have been so trained—that is, in an ordinary pharmacy. If you do not feel inclined to take the girl, an advertisement in our supplement would be likely to put her in communication with someone who would. A book has recently been published which may be of some assistance. It is by Miss Bradbury, resident dispenser at the Ryde Dispensary, in which she embodies the results of her own experience. The pamphlet is published by F. W. Flux & Co., 12 John Street, Ryde, at a shilling. Miss Bradbury's advice to women who wish to take up dispensing is to obtain, in the first place, the Assistants' certificate of the Apothecaries' Hall, and after that the "Minor."

98/37. *B. L.*—"Ocheil Berries."—We take this to be an error for "orchil," but the inquiry to you seems definite as to the drug or dye being berries. Perhaps Persian berries are meant. Does any subscriber in England know of anything sold as "ocheil berries"?

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

204/97. Haye's palmatto: where obtainable, or who is the maker?

101/6. The address of The McDonald Patent Battery Company?

Coming Events.

Tuesday, April 27.

Royal Institution, Albemarle Street, W., at 3 P.M. Dr. Tempest Anderson on "Volcanoes."

Royal Photographic Society, 12 Hanover Square, W., at 8 P.M. Mr. T. Bolas will give a practical demonstration of glass-blowing at the lamp.

Wednesday, April 28.

Western Chemists' Association (of London), Westbourne Restaurant, Craven Road, W., at 9 P.M. Musical and social evening.

Midland Chemists' Assistants' Association, Exchange Rooms, Birmingham, at 9 P.M. Musical and social evening.

Forfarshire District Chemists' Association, Queen's Hotel, Dundee, at 4 P.M. Dinner, 5.30 P.M.

Newcastle-on-Tyne District Chemists' Association, at the Metropole Hotel, Clayton Street West, at 8 P.M. Inaugural address by the President, Mr. T. M. Clague.

Society of Chemical Industry, Nottingham Section, Wyvern Hotel, Leicester, at 7.30 P.M. The following papers will be read:—1. "An Attempt to Prepare Methylene," Dr. J. J. Sudborough, F.I.C., F.C.S.; 2. "On the Removal of Mineral-oil Stains from Dyed Fabrics," Mr. S. J. Pentecost, F.I.C.

Society of Arts, John Street, W.C., at 8 P.M. "Asbestos and Asbestic: with some Account of the Recent Discovery of the Latter at Danville, in Lower Canada." By Mr. Robert H. Jones.

Thursday, April 29.

Halifax and District Chemists' Association, at Nelson's Rooms, Old Cock Hotel, Halifax.

Chemical Society, Burlington House, W., at 8 P.M. Dr. H. C. Myers on "Monochlorodiparaconic Acid and Some Condensations," and Mr. W. A. Caldecott on "The Decomposition of Iron Pyrites."

Chemists' Assistants' Association, 9 Queen's Square, W.C., at 8.30 P.M. Musical and social evening.

Friday, April 30.

Royal Institution, at 9 P.M. Professor J. J. Thomson on "Cathode Rays."

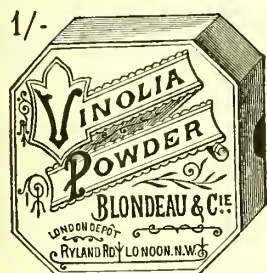
Pharmaceutical Chemists' Assistants' Association of Ireland, Dublin, at 8 P.M. Social evening.



Premier Vinolia Soap.

Keeps the Complexion
Beautiful and Clear.

9/2 per dozen Boxes of 3 Tablets.

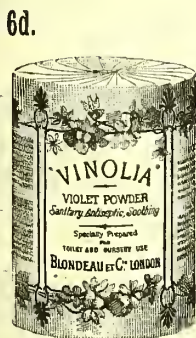


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ness, Toilet, &c.

In White, Pink, and Cream Tints.

9/2 per dozen.



Vinolia Violet Powder.

Specially prepared for
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3/4 per dozen 1/4-lb. Tins.



Premier Vinolia Dentifrice.

Keeps the Teeth Ivory
White.

In Glass Bottles and Round Metal Boxes.

3/3 per dozen.

6d.



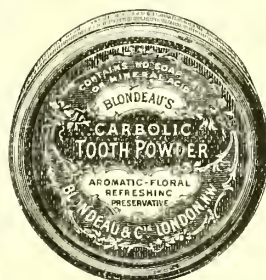
Vinolia Shaving Stick.

Causes no Blotches.

PREMIER.

3/6 per dozen.

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Blondeau Carbolic Tooth Powder.

Soothing to Tender
Gums and Sensitive
Teeth.

In Artistic Round Metal Box, 3/3 per dozen.

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Vinolia Liquid Dentifrice.

Whitens the Teeth
Beautifully.

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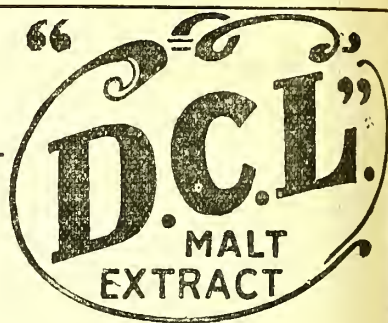
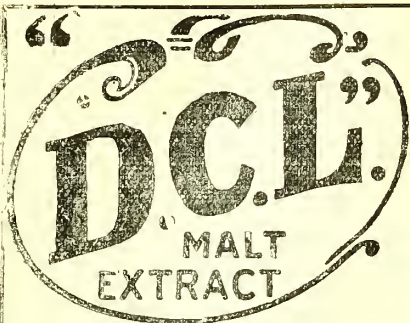
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Valley.
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trope.
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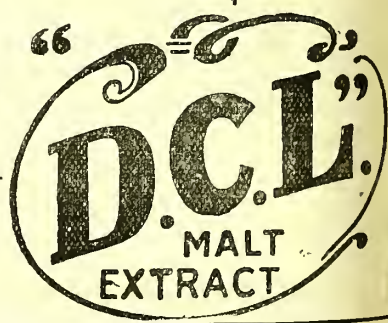
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PURE AND CHEAP.

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Mono Carbonate of Soda	1.90
Sulphate of Soda	trace
Chloride of Sodium035
Moisture82
Insoluble	nil

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CAUSTIC SODA. BLEACHING POWDER.

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*Manufacturers of Soda by the Ammonia Process,***NORTHWICH, CHESHIRE.**

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth ($1/8$) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ($1/64$) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

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W. RENAUD, Managing Director.

33 Farringdon Road, London.

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“EDME” PURE MALT EXTRACT

RICHEST IN DIASTASE. PURITY & KEEPING QUALITIES GUARANTEED.

THE LANCET says:—"This preparation proved to be a highly concentrated and active malt essence. It possesses a rich malty flavour, and acts **powerfully** upon starch, **converting it rapidly into maltose**. It is, therefore, well adapted for use as an aid to the digestion of starchy foods, whilst furnishing also important food constituents."

THE BRITISH MEDICAL JOURNAL says:—"It is of pale amber colour and good consistency. When tested with gelatinised starch it converted **FIVE TIMES ITS OWN WEIGHT IN FIVE MINUTES** at a temperature of 100° F. This result shows that the Extract has a **very high diastasic power**, and it therefore would be extremely efficacious as a medicinal agent where the use of an aid to the digestion of amylaceous food is indicated."

THE PHARMACEUTICAL JOURNAL says:—"This preparation is one which is not as well known to the retail chemist as some that could be mentioned, but examination of it shows that it **possesses claims which entitle it to extended patronage**. The result of the test proves the extract to be of **UNUSUALLY HIGH DIASTASIC VALUE**, and it is equally satisfactory in other respects."

Samples on application to the
ENGLISH DIASTASIC MALT EXTRACT CO., LTD.
MISTLEY, ESSEX.

LOFTHOUSE & SALTMER,
MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA**.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot. Otto de Rose, and all



Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Bland's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.



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TO THOSE INTERESTED IN
INDIAN BUSINESS.

BEYNON & CO^Y

Pharmaceutical Chemists and
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Head Office: **BOMBAY, INDIA.**

1. Are thoroughly well placed, have exceptional facilities, with a thorough knowledge of the Indian Trade, for opening up or extending the sale of Pharmaceutical and Medical Specialities.

2. Invite Correspondence with English Houses anxious to keep abreast of the times and to take advantage of the valuable field in India.

3. Our travellers cover India, Burma, and Ceylon.

EFFERVESCING

CITRATE of MAGNESIA

TO BUYERS.

OUR Manufacture of this article has met with all-round commendation from our Customers, and, judging by the increased demand last season, has met with a ready and quick sale. We are confident that your trade may be largely increased if you buy a good article which gives satisfaction to all. As a basis we take the British Pharmacopœia formula, but, owing to the desire of the public for a more palatable article, we prepare four kinds, indicated by the letters A, B, C, and D, each having the proportion of sugar varied according to the price.

"A" QUALITY. Very Superior.

BLUE LABEL. Per lb. 10d. Per cwt. 85s.

"B" QUALITY. Superior.

PINK LABEL. Per lb. 9d. Per cwt. 68s.

"C" QUALITY. Very Good.

YELLOW LABEL. Per lb. 8d. Per cwt. 62s.

"D" QUALITY. Good Saleable.

WHITE LABEL. Per lb. 7d. Per cwt. 56s.

Also put up in 1-lb., $\frac{1}{2}$ -lb., and $\frac{1}{4}$ -lb. Round Blue Bottles, corked, or in 6-oz. and 8-oz. Blue Flats, lettered, patent stoppered or wood top corks.

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In 6-oz. and 8-oz. Patent Stoppered Bottles, each enclosed in a cartoon, and covered with an elegantly designed wrapper, without name, 6s. 6d. and 8s. per doz.

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Also in 4-oz. Tins,
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		Per lb.		Per cwt.
CITRATE OF MAGNESIA, Raspberry Flavour, tinted	...	1/-	...	70/-
" "	" "	Lime Fruit Flavour	...	1/-
" "	" "	Lemon Flavour, tinted	...	1/-
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SAMPLES and FULL PRICE LIST FREE on RECEIPT of POSTCARD.

T. HOWARD LLOYD & CO.,

Wholesale Manufacturing
Chemists & Druggists,

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Euthymol Tooth Paste

MANUFACTURED BY

PARKE, DAVIS & CO.,

Detroit, Mich., and 21 North Audley St., London,



The Labels on both Tubes and Boxes are handsomely lithographed in three colours.

"as its name indicates, depends in large measure for its value upon Euthymol, a preparation that has long been employed by Surgeons wherever perfect antiseptics was desired, and has, moreover, deservedly gained universal popularity because of its freedom from danger except to germ life.

"To the mind of the writer this preparation warrants specific mention, inasmuch as it offers the ideal of a dentifrice in that it is at the same time a powerful antiseptic, reasonably detergent, modest in price, pleasant in odour, and exceptionally grateful to mouth and gums, while last, but not least, its use affords a positive protection against foul breath and other conditions peculiar to the mouth that lead to retraction and softening of the gums, staining of enamel, formation of tartar, and decay; it is likewise a reasonably certain guarantee against a number of diseases which gain entrance to the human organism through germs in the mouth and digestive organs."—*Popular Science News*, August, 1896, page 190.

WRITE FOR SAMPLES AND LITERATURE.

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A very saleable line. Put up in oval card boxes, 36 Capsules in each box, and with a most attractive label (our registered design). Price 9/- doz. boxes.

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Our Capsules are undoubtedly the Best on the Market.

A TRIAL ORDER RESPECTFULLY SOLICITED.

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Manufacturers of Capsules, Cachous, Compressed Pellets, Fumigating Pastilles,
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MADE FROM REALLY OLD BARK.

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Prepared from the fresh Articular Cartilages and Synovial Membranes of healthy animals. In Bottles, 3s., 5s. 6d., and 10s.

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1-oz. Bottles of Tincture of Suprarenal Glands, 2s. 6d.
 PILLS, in Bottles, 2s. 9d. and 5s.
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EXTRACTUM CORTICIS CEREBRI (Brain Extract).

Price, in Bottles, 3s. and 5s.

BONE MARROW EXTRACT.

Dose.—Half to one teaspoonful two or three times a day.
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Fluid Extract, 2s. 6d. per oz. Bottles.
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(FOR MYXEDEMA.)
 Price, in Bottles, 3s.

THYROIDINE.

Containing the active principle of the Thyroid Glands of the sheep,
 4 grains equal to about one-eighth of a fresh gland. Also PILLS
 and TABLETS, each containing a dose of Thyroidine.
 In Bottles, 2s. 6d. each.



WILLOWS, FRANCIS & BUTLER,

Wholesale & Manufacturing Chemists & Export Druggists,

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ESTABLISHED 1751.

Leaflets descriptive of above and List of Drugs and Pharmaceutical Preparations on application.

The following is extracted from a "Chemist and Druggist" leading article which appeared May 23rd, 1896, entitled:—

"ON IMITATING A SPECIALITY."

"The way of the imitator is hard; he can never be sure when he gets there. Chlorodyne was invented by Dr. Collis Browne in 1848, and after an eight years' trial of it in India Dr. Browne came home in 1856, and by Mr. J. T. Davenport's assistance the compound was soon familiar to the medical profession and the public in England, and ere long it became known the world over. Straightway imitations of it commenced.

* * * * *

But Mr. Davenport's policy from the first has been to keep silence amidst the multitude of guesses made respecting the composition of this speciality, and that this was the best policy will be evident to anyone who glances at the table of nineteen formulæ which we subjoin.

* * * * *

It is but fair to add on behalf of some of the formulators that they have been careful to say that their products are not attempts at imitation, but something like it, or a substitute, and that it is still the rule in British pharmacy to give Dr. Collis Browne's article when 'Chlorodyne' is ordered in prescriptions—a very common-sense rule in view of diversity of opinion amongst authorities."

Dr. J. COLLIS BROWNE'S CHLORODYNE.

This preparation does not contain any poison which is included in Part I, Schedule A, of the Poisons Act; therefore the signature of the purchaser is NOT required.

Chemists who study their own reputations should never be thoughtless enough to sell an imitation Chlorodyne. Any first-class, old-established Chemist will tell you that Dr. Browne's preparation is the only genuine Chlorodyne.

Sole Manufacturer—**J. T. DAVENPORT**, 33 Great Russell Street, London, W.C.

CAUTION.

SUBSTITUTES FOR DR. WILLIAMS' PINK PILLS FOR PALE PEOPLE

INJUNCTION of the HIGH COURT OF CHANCERY

(Mr. JUSTICE STIRLING, March 26th, 1897).

THE DR. WILLIAMS' MEDICINE COMPANY,

(PLAINTIFFS),

HENRY CLINTON & CO. (trading as Clinton's Drug Stores),

(DEFENDANTS).

Upon motion for an injunction this day made unto this Court by Counsel for the Plaintiffs, and upon hearing Counsel for the Defendants, and Plaintiffs and Defendants by their respective Counsel consenting to treat the hearing of the said Motion as a Motion for Judgment. This Court doth order and adjudge that the Defendants, their servants and agents, be PERPETUALLY RESTRAINED from passing or attempting to pass off Bottles, Boxes, or Packages of Pills not of the Manufacture of the Plaintiffs, by the use of the term "Pink Pills for Pale People," or in any other way. And it is ordered that the Defendants do forthwith deliver up to the Plaintiffs all labels, bottles, boxes, packages, circulars, and other trade documents, in the possession or power of the Defendants, containing the words "Pink Pills for Pale People," and not referring to or used or intended to be used in conjunction with the Plaintiffs' Pills. And it is ordered that the Defendants Henry Clinton & Co. (trading as Clinton's Drug Stores) do pay to the Plaintiffs, The Dr. Williams' Medicine Company, their costs, up to and including this Judgment, but exclusive of the costs of the account hereinafter directed. And it is ordered that an account be taken of the profits made by the Defendants in manufacturing or selling such bottles, boxes, and packages of pills; and the costs of taking the said account are reserved.

TO THE TRADE.

All information as to infringements will be highly esteemed and will be treated confidentially if sent to the Dr. Williams' Medicine Company, of 46 Holborn Viaduct, London, E.C., or to their Solicitor, Mr. C. Urquhart Fisher, 19 and 20 Holborn Viaduct, London, E.C. It is also notified to the trade that steps are being taken to ascertain in what cases imitations of and substitutes for Dr. Williams' Pink Pills are being offered, and that proceedings will be taken in all instances where such substitution is detected.

BARRON, HARVEYS & CO.

WHOLESALE AND EXPORT DRUGGISTS,

GILTSPUR STREET, LONDON, E.C.

Beg to inform their friends and the Trade generally that, being Sole Proprietors of the Business of
BARRON, SQUIRE & CO., BUSH LANE,
and also the various Formulæ of the Special Preparations of
JAMES BASS & SONS, HATTON GARDEN,
they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

SPECIMENS OF THESE PREPARATIONS have REMAINED in the MUSEUM of KEW GARDENS during 28 YEARS
WITHOUT DETERIORATION.

"SWEET" PEARL COATED PILLS.
TINCTURES, ETC., IN BOND.

Telephone No. 4589.

Telegraphic Address — "TERPINOL LONDON."

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EXTRACTUM HYOSCYAMI,

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SPECIAL QUOTATIONS FOR CWT. LOTS.

MAGKEY, MAGKEY & CO., ¹⁷⁵GRANGE ROAD, BERMONDSEY, S.E.

Contractors to Her Majesty's Government, Wholesale and Export Druggists and Manufacturing Chemists.

BAYER'S PHARMACEUTICAL SPECIALITIES.

TRIONAL.
SOMATOSE.

Absolutely safe and efficacious Hypnotic. Dose: 15 to 20 grains.

An important nutrient and invigorant, especially for Convalescents, Invalids, Phthisis, Chlorosis
Carcinoma ventriculi Rachitis.

IODOTHYRIN.

The active principle of the Thyroid Gland.

SALOPHEN.

A Specific for Headache, Influenza, Acute Muscular Rheumatism.

TANNIGEN.

Acting promptly in Chronic and Acute Enteritis, especially for Children.

LYCETOL

(Tartrate of Piperazine). Antilithic, Uric Solvent.

SYCOSE.

The purest Artificial Sugar, free from para acid.

EUROPHEN.

A perfect substitute for Iodoform, odourless, and non-toxic. *Special indications:* Ulcus Molle,
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ARISTOL.

An excellent cicatrising agent. *Special indications:* Burns, Ulcus Cruris, Parasitical Eczema, Ozæna,

PIPERAZINE-BAYER, PHENACETINE-BAYER, SULFONAL-BAYER, SALOL-BAYER.

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CHLOROFORM

Chloroform (DUNCAN'S S.G. 1490) Non-decomposable. PURE & METHYLATED.

This contains about 1 per cent. Absolute Alcohol, but in other respects is identical with our ordinary make (S.G. 1497), which contains about $\frac{1}{4}$ per cent. While this minute proportion of Alcohol in no way affects its anæsthetic power, it renders the Chloroform **PRACTICALLY NON-DECOMPOSABLE.**

N.B.—We are now bringing this Chloroform prominently before the Medical Profession, but we continue to send out Sp. Gr. 1497 where Sp. Gr. 1490 is not specially ordered. We recommend the latter for export, particularly to warm climates.

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A Most Powerful, Absolutely Non-Poisonous, Non-Irritant, & Convenient ANTISEPTIC DISINFECTANT & DEODORANT

Chinosol ($C_9H_7N_3KSO_4$) is, as shown by the Bacteriological Reports, at least 40 times stronger in its germicidal action than Carbolic Acid, without possessing the dangerous and otherwise objectionable properties of the latter. Chinosol is sold in various forms adapted to its manifold important applications—viz., Pure Chinosol, in Powder and Compressed Tablets; Crude Chinosol, in Granular and Fluid form, as a Disinfectant and Deodorant; Dusting Powder, for Wounds, Sores, and for Destruction of Parasites, &c.; Chinosol Lanolin Ointment; Chinosol Antiseptic Surgical Dressings; Chinosol Soap (Medicinal, Veterinary, and Toilet), &c., &c.

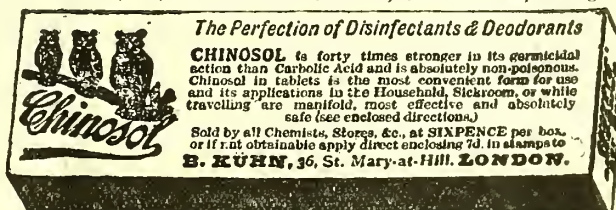
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This box is Retail at SIXPENCE.

FOR PRICES, LITERATURE, &c., APPLY TO

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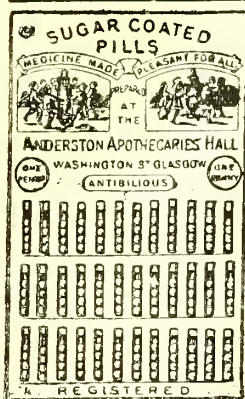
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CHINOSOL is forty times stronger in its germicidal action than Carbolic Acid and is absolutely non-poisonous. Chinosol in tablets is the most convenient form for use and its applications in the Household, Sickroom, or while travelling are manifold, most effective and absolutely safe (see enclosed directions.)

Sold by all Chemists, Stores, &c., at SIXPENCE per box, or if not obtainable apply direct enclosing 7d. in stamps to **B. KÜHN, 36, St. Mary-at-Hill, LONDON.**



SUGAR-COATED PILLS

COMPOSED OF THE PUREST DRUGS

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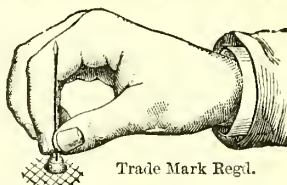
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HUMAN, from healthy children only, microscopically examined and source quoted. Tubes, two-thirds full, 1/8 each; one-third full, 1/- each. Tubes, two-thirds full (in every respect equal to those mentioned above, but without source), in quantities for export, £5 per 100.

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For BOTTLE PREPARATIONS requiring to be well presented; and for neatly packeting Tablets, Lozenges, Powders, &c.

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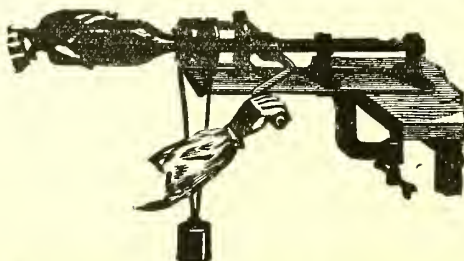
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Special Quotations on application.

NEW CAPSULING MACHINE

The only Machine
which leaves no crease
or pleat on the
Capsule. [1]



Can be fixed to any
Counter.
A single pull of the lever
is sufficient
to fix the Capsule.

Patentee—**C. MELIN, 37 Crutched Friars, LONDON, E.C.**

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SOLUBLE PEARL-COATED PILLS

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FLEXIBLE GELATINE CAPSULES.

Special NET prices.

Pil. Ferri Bland, in 10-gross tins, 3 d.; 100-gross tins, 3d. per gross.

In 1-gross metal-capped bottles, 52/- per gross.

Little Aperient or Liver Granules, in metal-capped tubes (40 in each), coated white, 30/- per gross.

APERIENT PILLS.

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No. 32.	Ext. Aloes Aquos	Di.		
	Pulv. Cambog.	gr. iv.		
	" Jalapæ	" viii.		
	" Colocynth	" vi.		
	Hyd. Subchlor.			
	Pulv. Sapo. Hispan	...	aa	" iv.		
	Gingerin	...	...	" ii.	5d.	4d.

Ft. Pil. xii.

"LITTLE" APERIENT PILL.

" 265.	Aloin	...	...	gr. $\frac{1}{10}$		
	Podophyllin	...	...	" $\frac{1}{5}$		
	Ext. Hyoscy.	...	...	" $\frac{1}{20}$		
	Jalapine	...	...	" $\frac{1}{16}$		
	Ext. Nucis Vom.	...	...	
	Capsicine	...	aa	" $\frac{1}{20}$	5d.	4d.
" 1.	Pil. Aloes et Ferri, P.B.		5d.	4d.
" 2.	" " Myrrh, P.B.		1/-	11d.
" 4.	" Colocynth Co., P.B.		10d.	9d.
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" 10.	" Rhei Co., P.B.		5d.	4d.

BLAUD'S C. ARSENIC.

" 140.	Pil. Blandii	gr. v.		
	Acid. Arseniosi	" $\frac{1}{50}$	5d.	4d.
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	Acid. Arseniosi	" $\frac{1}{100}$	5d.	4d.
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	Ferri Arsenias	" $\frac{1}{30}$	5d.	4d.
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DANDELION PILLS.

10-gross lots. 100-gross lots.

No. 272.	Ext. Taraxaci			
	" Anthem			
	Pulv. Rhei	...	aa	gr. i.		
	" Aloes Barb.	...	...	
	" Zingib.	...	aa	" ss	6d.	5d.
	Ol. Carui	...	...	" $\frac{1}{2}$		

TIC PILLS.

" 208.	Quineti	...	...	
	Ferri Sulph.	...	aa	gr. ss		
	Ext. Belladon	...	...	" $\frac{1}{2}$		
	" Colchici Acet.	...	...	" ss		
	" Hyoscyami	...	...	
	Camphoræ	...	aa	" i.	1/-	11d.

TONIC PILLS.

" 131	Ferri Sulph	...	...	gr. i.		
	Ext. Gentianæ	...	...	" iii.	5d.	4d.

PENNYROYAL PILLS.

" 247	Ol. Pulegii	...	...	gtt. $\frac{1}{2}$		
	Pil. Aloes et Ferri	...	...	gr. iv.	6d.	5d.

QUININE PILLS.

" 250.	Quinina Sulph.	...	...	gr. i.	8d.	7d.
" 251.	" "	...	...	gr. ij.	1/2	1/-

PERMANGANATE OF POTASH PILLS.

" 242	Potass. Permang.	...	...	gr. i.	6d.	5d.
" 243	" "	...	...	" ij.	9d.	8d.

FLEXIBLE GELATINE CAPSULES.

Bals. Copaibæ, min. 10	...	...	...	8/6 per 1,000; in boxes containing 36,	5/6 per doz.
Blaud's = two pills	...	...	...	13/-	"
Cascara Sagrada = $\frac{1}{2}$ drachm Liq. Ext.	...	...	...	12/6	"
Compound Senegæ	...	...	...	14/-	"
Copaibæ, Cubebæ, and Santal.	...	...	...	22/-	"
Creasote, min. 1	...	...	...	8/6	"
" " 2	...	...	...	11/-	"
Guaiaicol, " 1	...	...	...	12/6	"
" " 2	...	...	...	14/-	"
Ol. Santal. Flav., min. 10 (English warranted)	32/-	"	"	24, 12/-	"

SPECIAL RATES TO LARGE BUYERS.

DR. SCOTT'S BILIOUS & LIVER PILLS.

The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

A GOOD PILL and GOOD PROFIT.

1/1½ size	...	...	...	...	Wholesale Price, 10/- per dozen.
" "	...	...	...	...	Minimum Retail Price, 1/- „ box.
2/9	„	...	...	...	Wholesale Price, 24/- „ dozen.
" "	„	...	...	...	Minimum Retail Price, 2/6 „ box.

The proprietors will be obliged if Chemists will report all cases of Cutting to

THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,
2 and 3 STONECUTTER STREET, E.C.,

who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to
 173 Seymour Place, London, W.

BEECHAM'S PILLS

IN £5 LOTS.

Complying with the voice of the majority of the Trade, the Proprietor of BEECHAM'S PILLS has reduced the minimum limit of orders to Five Pound Lots, and hopes this may be generally acceptable.

The new arrangement came into force on January 1st and the prices are now as follows:—

BEECHAM'S PILLS.— 9½d. size (36 pills)	...	...	...	7/- per dozen, net.
13½d. „ (56 pills)	...	...	...	9/6 „ „
2/9 „ (168 pills)	...	...	...	25/- „ „

No orders executed below £5 value. These prices are the lowest, no matter what quantity is ordered.

BEECHAM'S TOOTH PASTE (in collapsible tubes).—1/- size ... per dozen, net, 7/6

Packages free. Carriage NOT paid.

Cash must in all cases accompany orders, which, with requisitions for advertising matter, must be addressed—

THOMAS BEECHAM, ST. HELENS, LANCASHIRE.

CAPSULED "McK. & R." PILLS

McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED ?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations..... 5 gr.
 Alo s, Dilute (Dr. Hall Dinner Pill) 4 gr.
 Aloes Barb.
 Saponis Pulv.
 Pulv. Ext. Glycyrrh.
 Theriaca, aa..... 1 gr.
 Aloes and Nux Vomica—
 Aloes Soc. 1½ gr.
 Ext. Nucis Vom..... ½ gr.
 Aloin ½, 1, 2, 3 gr.
 Aloin, various combinations.
 Anti-Dyspepsia (Fothergill)—
 Strychninae ½ gr.
 Pulv. Piper Nig. 1½ gr.
 Pulv. Ipecac..... 2-3 gr.
 Ext. Gent..... 1 gr.
 Arsenious Acid..... 1-20, 1-50 gr.
 Asafoetida, U.S. and B.P. 5 gr.
 Atropine 1-100, 1-300 gr.
 Blue Pill, B.P. 1, 2, 3, 5 gr.
 Blue Pill, with Colocynth and Hyoscyam... 5 gr.
 Calcium Sulphide 1-10, 1-4, 1-2, 1 gr.
 Calomel, Colocyn., and Hyosc..... 5 gr.
 Calomel Co., B.P. 5 gr.
 Camphor and Hyoscyam..... 2 gr.
 Camphor
 Ext. Hyoscy., aa 1 gr.
 Cannabis Indica 1-4, 1-2 gr.
 Cascara Sagrada..... 3 gr.
 Cathartic Comp., U.S.P.
 Ext. Jalap 1 gr.
 Ext. Coloc. Co. 1-1-3 gr.
 Hyd. Subchlor. 1 gr.
 Gambog. 1-4 gr.
 N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.
 Colocynth Comp., B.P. 4, 5 gr.
 Colocynth, other combinations.
 Copaliba Compound—
 Onbeba Pulv. 2 gr.
 Ferri Sulph. Exsio. 1-2 gr.
 Mass. Copaib. 1 gr.
 Tereb. Venet..... 1-1-2 gr.
 Corrosive Sublimate..... 1-30, 1-20, 1-10 gr.

Croton Oil..... 1-2 gr.
 Diuretic—
 Ext. Buchu, Potass. Nitrat..... 1 gr.
 Scilla Pulv. 1-2 gr.
 Emmenagogue—
 Ferr. Sulph. Exsio. 1-1-2 gr.
 Thus, American 1-1-2 gr.
 Aloes Socot. 1-2 gr.
 Ergotin 3 gr.
 N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
 Eucalymin 2, 3 gr.
 Iodoform and Iodoform with Iron..... 1 gr.
 Ipecac. 1-4, 5 gr.
 Ipecac. Co. 5 gr.
 Ipecac. and Squill, B.P. 5 gr.
 Iron Pill, B.P. Add. 3, 5 gr.
 Iron Arseniate..... 1-8 gr.
 Iron reduced by Hydrogen (Quevenne)..... 1, 4 gr.
 Iron and Quinine Citrate..... 2 gr.
 Laxative, Vegetable—
 Res. Podoph.
 Ext. Hyoscy.
 Ext. Tarax., aa..... 1-4 gr.
 Ext. Coloc. Co. 1 gr.
 Jalape
 Res. Lepstand. aa..... 1-2 gr.
 Ol. Menth. Pip.
 Mercury, Biniodide 1-16 gr.
 Mercury, Proto-iodide.... 1-20, 1-16, 1-8, 1-4 gr.
 N.B.—Made from the absolutely pure *yellow* impalpable powder, free from mercury and from biniodide.
 So-called "green" proto-iodide contains uncombined mercury.
 Mercury with Chalk 1 gr.
 Morphine Muriate 1-8, 1-4 gr.
 Nitro-Glycerine 1-200, 1-100, 1-50 gr.
 Opium 1 gr.
 Opium and Camphor..... 1 gr.
 Opil Pulv..... 1 gr.
 Camphor 2 gr.
 Pepsin, Pure 1 gr.
 Phosphorus 1-100, 1-50, 1-30 gr.

N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medication.
 Phosphorus and Iron—
 Phosphor. Pur. 1-50 gr.
 Ferr. Redact. 2 gr.
 Phosphorus, Iron, and Quinine—
 Phosphor. Pur. 1-100 gr.
 Ferri Carb. 1 gr.
 Quininae Sulph. 1 gr.
 Phosphorus and Nux Vomica—
 Phosphor. Pur. 1-50 gr.
 Ext. Nucis Vom..... 1-4 gr.
 Phosphorus and Quinine—
 Phosphor. Pur. 1-50 gr.
 Quininae Sulph. 1 gr.
 Phosphorus and Valerianate of Zinc—
 Phosphor. Pur. 1-50 gr.
 Zinci Valer. 1 gr.
 Picrotoxin 1-80 gr.
 Podophyllin 1-8, 1-4, 1-2 gr.
 Quinine, Bisulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
 Quinine, Sulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
 Quinine Co. (Anti-Malarial).
 Largely prescribed in America with excellent results.
 Rhubarb Comp., B.P. 5 gr.
 Rhubarb with Blue Pill 5 gr.
 Salicylic Acid 2, 5 gr.
 Soap Comp., B.P. 5 gr.
 Squill Comp., B.P. 5 gr.
 Strophanthus 1-20, 1-4 gr.
 Strychnine 1-50 gr.
 Tonic Laxative (Fothergill)—
 Quininae Sulph. 2-3 gr.
 Strychn. 1-30 gr.
 Ferri Redact.
 Ext. Bellad., aa 1-4 gr.
 Valerianates, Iron, Quinine, and Zinc.
 Warburg's Tincture and the same without Aloes.
 Each Pill = 1 fl. drm. of the Tincture.
 Zino Phosphide 1-4, 1-2 gr.
 Zino Valerianate 1 gr.

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

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INSECT POWDER.

Genuine Dalmatian, ground from the Closed Wild Flowers of "Pyrethrum roseum."

POWDERED HELLEBORE.

In fine Powder, and Genuine.

STAVESACRE SEEDS.

Own Import. We offer the Seeds whole or ground (own grinding).

CARBOLIC ACID, PALE LIQUID, 97%.

Having favourable contracts can offer to advantage in quantity.

Special Quotations on application. For lowest prices quantities should be stated.

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Tinctures, Ethers, Liniments, and Spirituous Extracts, &c., prepared with purest Spirit, and from best quality of raw Drugs, in accordance with requirements of British and other Pharmacopœias.

ODOFORM (absolute)

SODIUM IODIDE

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All Preparations of **BROMINE**

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Soldering Fluids, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta,
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ESTABLISHED 1775.

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"HENRIKSEN & CO.'S" Brand.

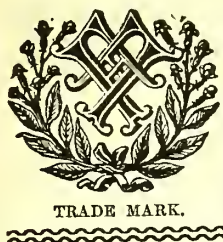
Guaranteed Pure. Very Finest 1897 Lofoden Non-freezing.

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Recommend of their own production finest Standard qualities.

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Specialities.

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Direct Importation of:

Oils of Bay Leaves, Bergamot, Cajuput, Camphor, Cananga, Cassia, Citronella, Eucalyptus (Globulus), Geranium (French, Indian, Turkish), Lavender, Lemon, Lemongrass, Neroli, Orange, Otto of Roses, Peppermint (American, Japanese), Petit-grain, Rosemary.

Largest advantages to Buyers and for Export, the Works being situated in the Free Port, where all raw materials are employed exempt of any duties and Customs charges.

Quality of all products fully guaranteed pure and first-class only.

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NOTICE.—Our Reduced Prices for Soothers will be maintained.

Retail at 2d., 3d., 4d., 6d., and 1s. each.

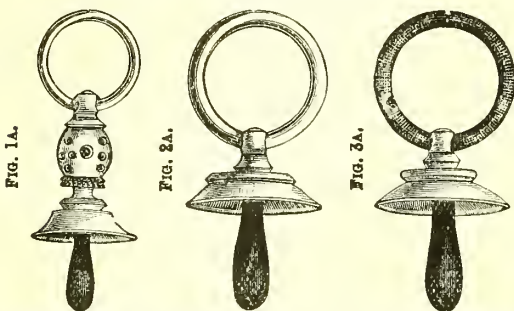
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Figs. 1A, 2A, and 3A, with Patent Unbreakable Ring and CONCAVE SCREW SHIELDS, TEAT and

SHIELD SECURELY FIXED.



"Concave Shields," Invented and Registered by T. E. Marriott.

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To avoid necessity of overstocking, we have arranged Assorted Parcels as under:—

Parcel A.—Cst., 10/6; realises retail, 17/6

" B. " 20/; " " 35/-

= 40 per cent. Profit on Returns.

These parcels contain an assortment of various goods relating to Jubilee. All good saleable lines.

JUBILEE PUFF BOX.

Decorated tin, with photos of the Queen and all the Heirs to the Throne, in 6 or 7 Royal colours, 3/- doz.

SMELLING BOTTLES.

Well recommended.

No. 374. Crystal glass, heart shape	...	2 9 doz.
" 377. Coloured glass, 3 colours, heart shape...	3/6	"
" 375. Small heart	...	2/6
" 376. Upright square, well cut, Maltex stopper	4/-	"

QUEEN OF HEARTS SALTS,

Filled and boxed.

A very smart line, applicable to this year, 4/- doz.

SHIRLEY BROS.

105 & 107 WHITECROSS STREET, E.C.

Do you require Petroleum Jelly?

If so, SNOWDON'S PETROLEUM JELLY, White or Yellow, is the best and purest obtainable. It fulfils all the requirements of the B.P., is pronounced by the Medical Profession to be unsurpassed, and DR. S. RIDEAL, D.Sc. Lond., F.I.C., F.C.S., states that the various kinds are of "uniform good quality."

Have you seen our New Speciality in Petroleum Jelly?

The "SNOWDRIFT" (Regd.) BRAND is of a tough or stringy consistency, and is highly commended by *The Hospital*, which says of it "That its tough or stringy nature is a great improvement. We learn that already the demand for the "Snowdrift" Brand is very great. It is cheaper than ordinary vaseline, and we confidently recommend it to the Medical Profession." Samples and Prices will be sent on application.

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H. BRONNLEY & CO., LIM., LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

SUPPORT HOME INDUSTRIES.



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**KENT'S
BRUSHES.**

See pp. 209-12, Summer Issue; also Diary, 1897, pp. 160, 161, 162, 163.

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Nos. 1, 2, and 3.

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PATENT.**

Descriptive Pamphlets Free by Post.

DAILY INCREASING SALE.

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9 & 11 St. Andrew's Street, Holborn Circus, London,

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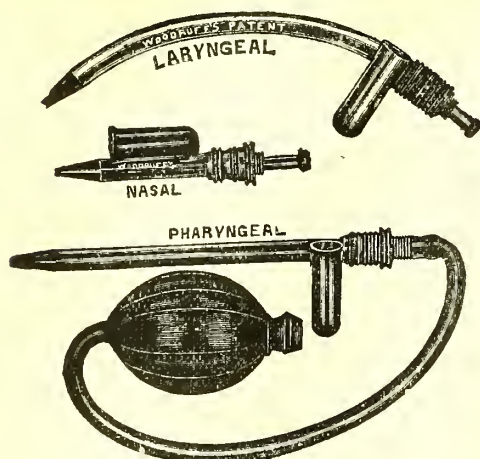
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An ideal apparatus for the administration and accurate use of Medicated Liquids or Solutions in minute quantities. The three forms shown are constructed so as to allow of the direct action of the Spray on the Larynx, Pharynx, and Mucous Membrane of the Nasal Cavity.

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LARYNGEAL , complete,	60/- doz.	Retail	6/6 each.
PHARYNGEAL	54/- "	"	6/- "
NASAL	50/- "	"	5/6 "

Spare Mounts, Bellows, and Pipettes are also supplied.

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The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

6 & 4 oz. . .	7/6 per gross.	10 & 12 oz. . .	12/- per gross.
6 " 8 " . .	8/6 " "	16 " " " "	16/- " "
WHITE MOULDED PHIALS, plain or graduated Teaspoons—			
1/2 oz. . .	3/6 per gross.	1 1/2 oz. . .	4/6 per gross.
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SPLENDID QUALITY.

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Sold in Boxes at 1s. and 2s.; Tins, 6s.

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ABSOLUTELY RELIABLE.



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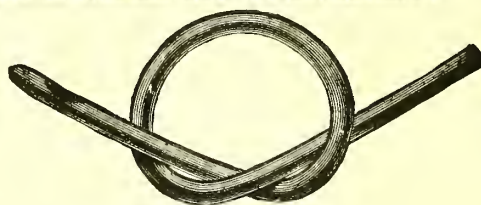
A soluble Quinine Pessary of proved absolute reliability. Upwards of 4,000,000 have been sold without a complaint of failure.

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A Coudée or Mercier	15/- "

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For straightening the Shoulders and expanding the Chest.

Abdominal Supports.

Of High-class Quality and Finish.

Elastic Stockings, Knee Caps, and Anklets.

In a variety of Colours.

AND OTHER APPLIANCES.

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All the Rage, and undoubtedly the Hit of the Season. Write for Quotations.

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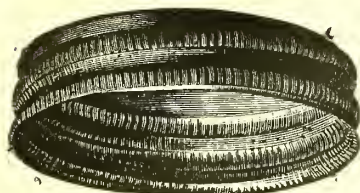
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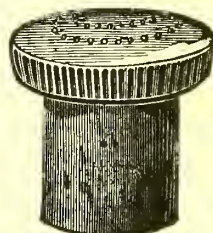
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C. HOUGHTON BROWN,
Secretary.

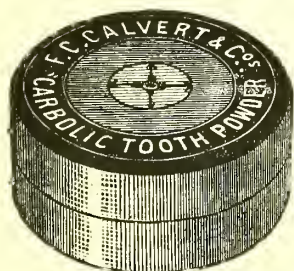


SCREW CAPS OR CAPSULES.
Nickel, Zinc, Tin, or other Metal.

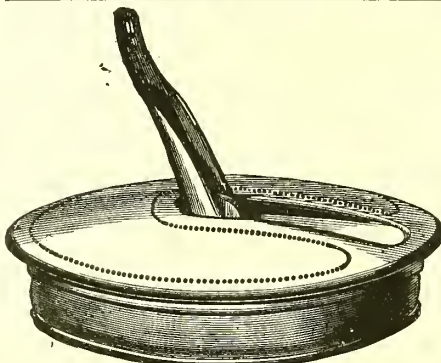
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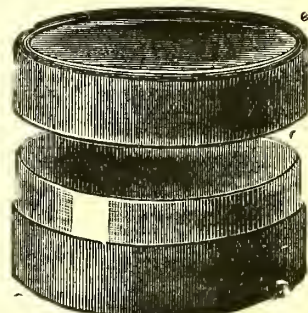


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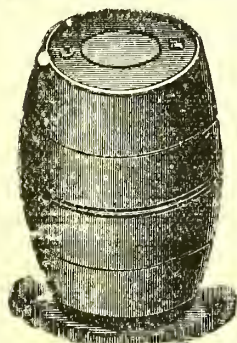
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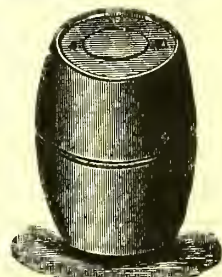
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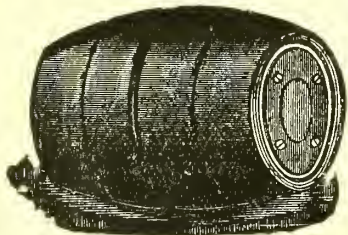


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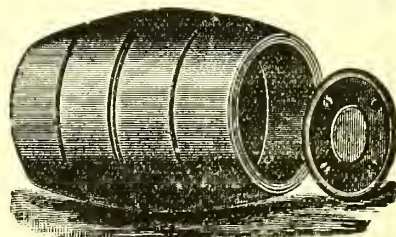


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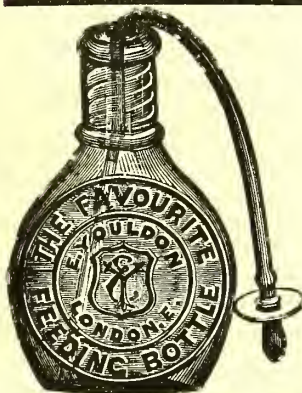
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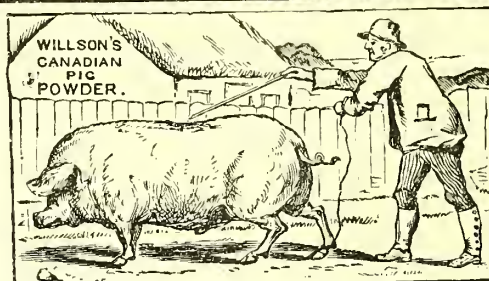
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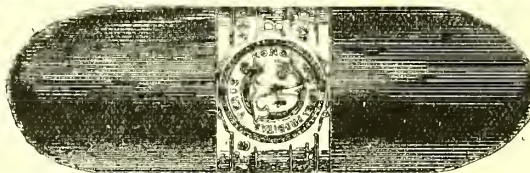
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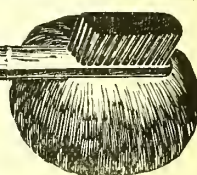
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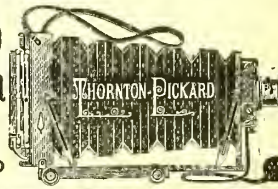
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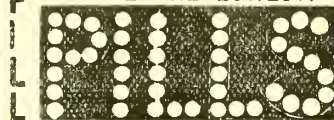
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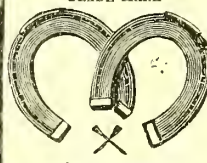


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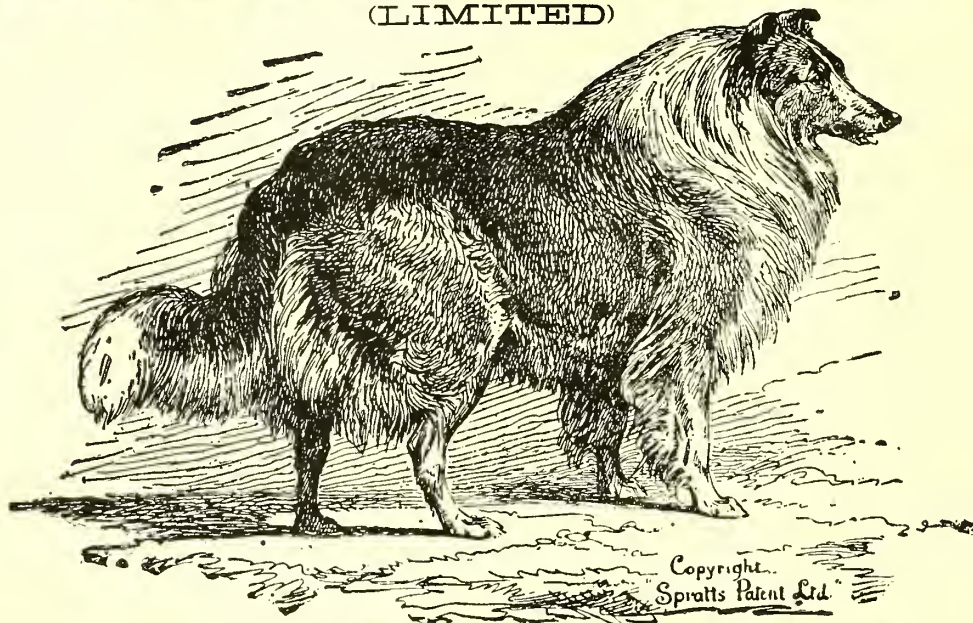
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AMERICAN, CANADIAN,
AND WEST INDIAN ISSUE

WILL BE PUBLISHED ON

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**ALL THE PRINCIPAL WHOLESALE AND RETAIL DRUG HOUSES IN THE
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The same language and the same customs make all products which sell in this country likely to sell in America.

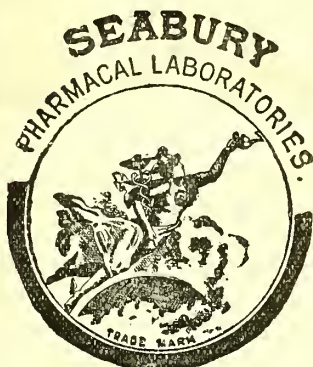
Despite all the fiscal hindrances which impede trade between Great Britain and the United States, America still is, and must always remain, the United Kingdom's largest foreign customer.

A British novelty is always looked on with favour in the United States, and there are few druggists' goods for which a demand cannot be created in North America.

The American drug trade read advertisements with care, and every announcement in the above issue will come before all the probable buyers of British drug goods throughout the North American Continent.

The issue of May 22 will be of particular interest, as it will contain Reports of the Annual Meeting of the Pharmaceutical Society, Dinner, &c.

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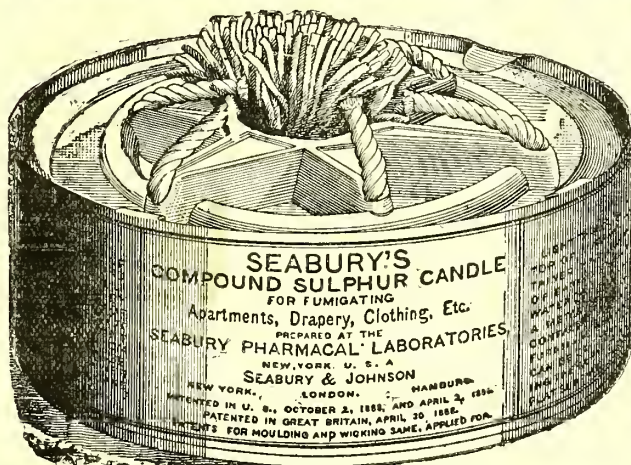
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Large Size, retailing at 1s.

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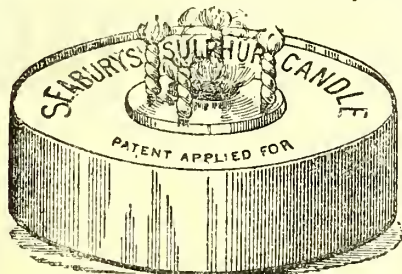
Will destroy disease germs after infectious diseases, in vacated apartments or hospital wards, also in bedding, clothing, and drapery.

Will destroy noxious vapours from sewers, cesspools, &c.

Will destroy insect pests and other vermin.

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The retail price of "PERLOIDS" is fixed at 1s.


"PERLOIDS." We protect the retailer who sells "PERLOIDS."

"PERLOIDS" keep for any length of time, and are particularly suitable for INDIA and other Hot Climates.

Do not give your Profits away, but accept our Non-Cutting Terms. Write for Samples and all Particulars.

 We will co-operate with Agents in the introduction of this new and elegant form of Homœopathic Medicine.

Once introduced you will command the Largest Trade.

 Agents' Show Cases of "PERLOIDS" from £1 1s. to £10 10s. No Charge for Cases.

The ordinary old 1s. size Tinctures, Pilules, Camphor Pilules, Externals, &c., at lowest possible prices for cash.

Homœopathic Medicines supplied in Bulk. Consult KEENE & ASHWELL before buying elsewhere.

KEENE & ASHWELL,

Manufacturing Homœopathic Chemists
(Successors to W. Headland, the first established in Great Britain, 1835),
74 NEW BOND STREET, LONDON.

THE VANHARGAN TONIC WINE

IS A FAR SUPERIOR TONIC WINE TO ALL OTHERS, & SELLS WELL.

We give good terms to Agents, and pay part of Licence where a Chemist Stocks this preparation. RETAIL 4/-

THE VANHARGAN COCA WINE

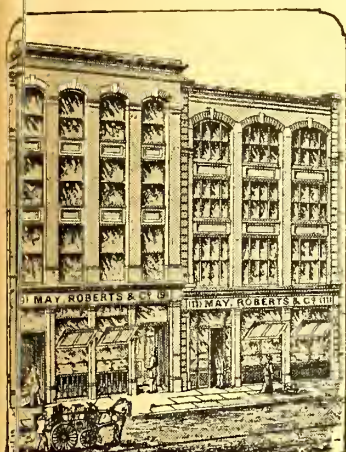
IS MADE ONLY FROM THE LEAVES.

Sold in Pint Bottles, RETAIL 3/6.

Prepared with a sound Red WINE (not Tarragona), and gives great satisfaction.

Send for List and Terms of the Vanhargan Tonic Wines, and particulars of Agencies, of the Trade Agents—

HEADLAND & CO., 68 FULHAM ROAD, LONDON, S.W.



Three Minutes' Walk from Aldersgate St. Station.

ILLUSTRATED PRICE LIST.

Revised January, 1897.

Sent Post Free on application with Business Card

COUNTRY ORDERS.—Particulars on application.

LONDON ORDERS.—Particulars on application.

EXPORT ORDERS.—Particulars on application.

MAY, ROBERTS & CO., LONDON.

Telegraphic Address: "FEEDING BOTTLES LONDON."

Telephone No. 6889, Holborn Exchange.

REGISTERED



NO TRAVELLERS.

Their Expenses
given to Buyers.

CARRIAGE PAID!

See Terms.

SEIDLITZ POWDERS,

Howards' Salt, Hand-weighed.

Boxes of 12 Powders	...	...	...	per dozen	5/6
Banded Powders in 1/2-gross outers	...	...	...	per gross	5/3

SEIDLITZ POWDERS.

(Measured.)

Boxes of 12 Powders	...	...	...	per dozen	5/-
Banded Powders in 1/2-gross outers	...	...	...	per gross	4/9

SELTZOGENE AND GAZOGENE CHARGES.

2	3	5	8 pint.	
11/-	13/-	19/6	27/-	per doz. boxes of 10
11/8	14/6	22/-	30/-	" " 12

CHERRY TOOTH PASTE

AND

ARECA NUT TOOTH PASTE.

6d. size	...	...	...	per dozen	3/4
1/- "	...	...	...	"	6/-

Pots with Burnt-in Labels.

ALMOND SHAVING CREAM.

Pots with Burnt-in Labels.

6d. size	...	...	...	per dozen	3/4
1/- "	...	...	...	"	6/-

GLYCERINE AND CUCUMBER.

2 oz.	3 oz.	4 oz.	8 oz.
2/10	3/6	4/-	7/-

(In cartons at 6d. per dozen extra.)

VIOLET POWDER.

boxes (in 1/4-gross outers)	...	...	...	per gross	4/6
" " "	...	...	...	"	7/6
" (in 1-dozen outers)	...	...	...	per dozen	3/6
" " "	...	...	...	"	6/-

FULLERS' EARTH.

1d. boxes (in 1/4-gross outers)	...	...	...	per gross	4/3
2d. " " "	...	...	...	"	7/-
6d. " (in 1-dozen outers)	...	...	...	per dozen	3/-

GLYCERINE AND LIME CREAM,

For the Hair.

3	4	6	8 oz. bottles.
2/2	2/6	3/6	4/3 per dozen.

Wood-top Corks. In outers of 1 dozen.

CULINARY ESSENCES.

Almond, Vanilla, Lemon, Ratafia, Cochineal,
Ginger, Peppermint.

1/2-oz. bottles	...	...	...	per dozen	2/6
1-oz. "	...	...	...	"	4/4

ROSEMARY AND CANTHARIDINE HAIR WASH.

In showy 1/2-pint bottles with Sprinklers.

Per dozen, 6/6.

TOOTH POWDERS.

Carbolic, Rose, Quinine, etc.

12 kinds assorted, in glass-top showcase.

Per dozen, 3/6.

MAY, ROBERTS & CO., 9 and 11 Clerkenwell Road, **LONDON, E.C.**

Cadbury's Cocoa

**ABSOLUTELY PURE
therefore BEST.**

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure." *The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

UNDER EMINENT SCIENTIFIC CONTROL

"APENTA"

THE BEST NATURAL
APERIENT WATER.



Trade Prices :

Per Case.

25 Large Bottles	-	20/-
50 Small „	-	32/6
100 Quarter „	-	32/6

Carriage Paid
to any Railway
Station in the
United Kingdom.

5 per cent. Discount upon orders for 10 Cases.

**TERMS :—Six Months' Credit from date of Invoice,
Net Cash.**

The retail prices printed on the labels are 1/3 per large bottle, 1/- per small bottle, and 6d. per quarter bottle.

THE APOLLINARIS COMPANY, LIM.

4 Stratford Place, Oxford Street, London, W.

